

JVC

SERVICE MANUAL

LCD FLAT TELEVISION

LT-26WX84 /K

BASIC CHASSIS

SB5



I'Art™ *Palette*
D.I.S.T.
Digital Image Scaling Technology
BBE

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SPECIFICATION

Items		Contents
Dimensions (W × H × D)		70.3cm × 56.0cm × 26.0cm (Included stand) 70.3cm × 49.1cm × 9.4cm (TV only)
Mass		22.0kg (Included stand) 19.2kg (TV only)
Power Input		AC220V , 60Hz
Power Consumption		155W (Max)
TV RF System		CCIR (M)
Color System		NTSC
Sound System		BTSC (Multi Channel Sound)
Teletext System		Closed caption
TV Receiving Channels and Frequency	VHF Low VHF High UHF CATV	02ch~06ch : 54MHz~88MHz 07ch~13ch : 174MHz~216MHz 14ch~69ch : 470MHz~806MHz 54MHz~804MHz Low Band : 02~06, A-8 by 02~06&01 High Band : 07~13 by 07~13 Mid Band : A~I by 14~22 Super Band : J~W by 23~36 Hyper Band : W+1~W+28 by 37~64 Ultra Band : W+29~W+84 by 65~94, 100~125 Sub Mid Band : A4~A1 by 96~99
TV / CATV Total Channel		180 Channels
Intermediate Frequency	Video IF Sound IF	45.75 MHz 41.25 MHz (4.5MHz)
Color Sub Carrier		3.58 MHz
LCD panel		26-inch wide aspect (15:9)
Screen Size		Diagonal : 66cm (H:33.9cm × V : 56.6cm)
Display Pixels		Horizontal : 1280 dots × Vertical : 768 dots (W-XGA)
Audio Power Output		10W + 10W
Speaker		6.6cm, round type × 2 (Oblique corn)
Antenna terminal (VHF/UHF)		F-type connector, 75Ω unbalanced, coaxial
Video / Audio input Input-1/2/3	Component Video [Input-1] 1125i / 750p 525p / 525i S-Video [Input-1/2] Video Audio	RCA pin jack × 3 Y : 1V (p-p) (Sync signal: 0.35V(p-p), 3-value sync.), 75 Ω Pb/Pr : ±0.35V(p-p), 75 Ω Y : 1V (p-p), Positive (Negative sync provided), 75 Ω Pb/Pr : 0.7V(p-p), 75 Ω Mini-DIN 4 pin × 2 Y: 1V (p-p), Positive (Negative sync provided), 75 Ω C: 0.286V (p-p) (Burst signal), 75 Ω 1V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 3 500mV (rms), High impedance, RCA pin jack × 6 RCA pin jack × 3
Digital-in	Video Audio	DVI-D 24-pin connector × 1 (Digital-input terminal is not compatible with computer signal) 500mV (rms), Low impedance, RCA pin jack × 2
Monitor output	S-Video Video Audio	Mini-DIN 4 pin × 1 Y: 1V (p-p), Positive (Negative sync provided), 75 Ω C: 0.286V (p-p) (Burst signal), 75 Ω 1V (p-p), Positive (Negative sync provided), 75 Ω RCA pin jack × 1 500mV (rms), Low impedance, RCA pin jack × 2
Headphone		3.5mm stereo mini jack × 1
Remote Control Unit		RM-C13G (AA/R6/UM-3 battery × 2)

Design & specifications are subject to change without notice.

SECTION 1

PRECAUTION

1.1 SAFETY PRECAUTIONS

- (1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
- (4) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (\perp) side GND, the ISOLATED (NEUTRAL) : (\equiv) side GND and EARTH : (\oplus) side GND.
Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.
- (5) If any repair has been made to the chassis, it is recommended that the PDP voltage setting should be checked or adjusted.
- (6) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

(7) Isolation Check (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

a) Dielectric Strength Test

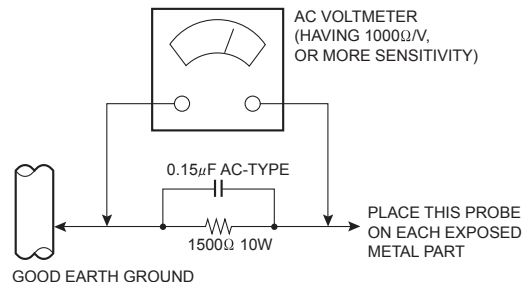
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. (. . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

b) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

Alternate Check Method

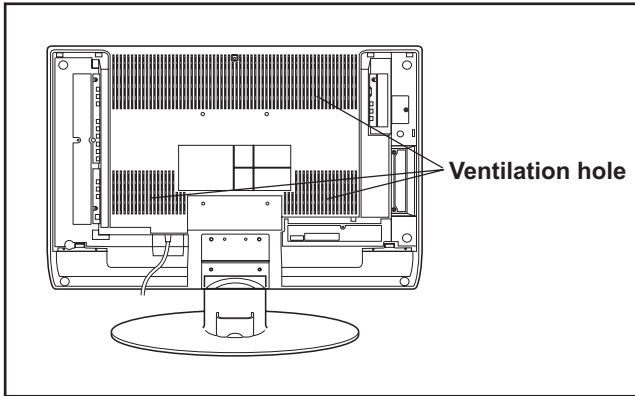
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 Ω per volt or more sensitivity in the following manner. Connect a 1500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



1.2 INSTALLATION

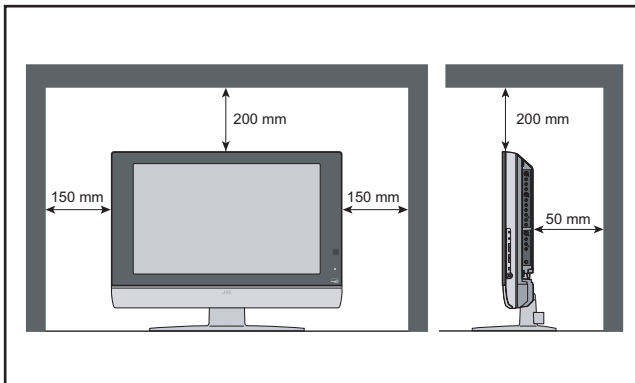
1.2.1 HEAT DISSIPATION

If the heat dissipation vent behind this unit is blocked, cooling efficiency may deteriorate and temperature inside the unit will rise. The temperature sensor that protects the unit will be activated when internal temperature exceeds the pre-determined level and power will be turned off automatically. Therefore, please make sure pay attention not to block the heat dissipation vent as well as the ventilation outlet behind the unit and ensure that there is room for ventilation around it.



1.2.2 INSTALLATION REQUIREMENTS

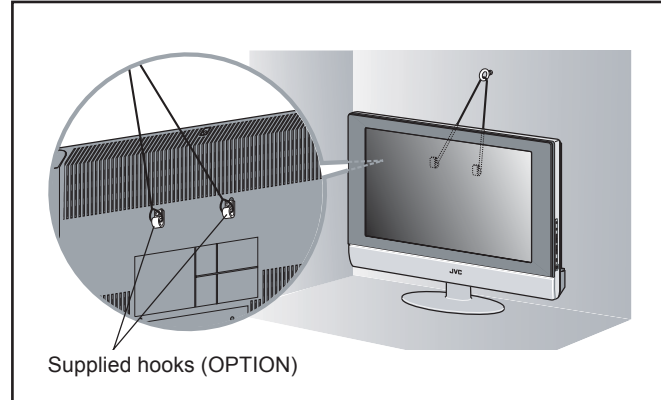
Ensure that the minimal distance is maintained, as specified below, between the unit with and the surrounding walls, as well as the floor etc. Install the unit on stable flooring or stands. Take precautionary measures to prevent the unit from tipping in order to protect against accidents and earthquakes.



1.2.3 INSTALLATION REQUIREMENTS

To ensure safety in an emergency such as an earthquake, and to prevent accidents, ensure that measures are taken to prevent the TV dropping or falling over.

Use the supplied screws to firmly attach the supplied hooks (OPTION) to the back of the TV, and use commercially available cord to fix the TV to rigid components such as walls and columns.



1.2.4 NOTES ON HANDLING

(1) WHEN TAKING UNIT OUT OF A PACKING CASE

When taking the unit out of a packing case, do not grasp the upper part of the unit. If you take the unit out while grasping the upper part, the LCD PANEL may be damaged because of a pressure. Instead of grasping the upper part, put your hands on the lower backside or sides of the unit.

(2) AS FOR PRESSING OR TOUCHING A SPEAKER

Be careful not to press the opening of the speaker in the lower part of the unit and around them since the decorative sheet on the surface of the openings may be deformed.

1.3 HANDLING LCD PANEL

1.3.1 PRECAUTIONS FOR TRANSPORTATION

When transporting the unit, pressure exerted on the internal LCD panel due to improper handling (such as tossing and dropping) may cause damages even when the unit is carefully packed. To prevent accidents from occurring during transportation, pay careful attention before delivery, such as through explaining the handling instructions to transporters.

Ensure that the following requirements are met during transportation, as the LCD panel of this unit is made of glass and therefore fragile:

(1) **USE A SPECIAL PACKING CASE FOR THE LCD PANEL**

When transporting the LCD panel of the unit, use a special packing case (packing materials). A special packing case is used when a LCD panel is supplied as a service spare part.

(2) **ATTACH PROTECTION SHEET TO THE FRONT**

Since the front (display part) of the panel is vulnerable, attach the protection sheet to the front of the LCD panel before transportation. Protection sheet is used when a LCD panel is supplied as a service spare part.

(3) **AVOID VIBRATIONS AND IMPACTS**

The unit may be broken if it is toppled sideways even when properly packed. Continuous vibration may shift the gap of the panel, and the unit may not be able to display images properly. Ensure that the unit is carried by at least 2 persons and pay careful attention not to exert any vibration or impact on it.

(4) **DO NOT PLACE EQUIPMENT HORIZONTALLY**

Ensure that it is placed upright and not horizontally during transportation and storage as the LCD panel is very vulnerable to lateral impacts and may break. During transportation, ensure that the unit is loaded along the traveling direction of the vehicle, and avoid stacking them on one another. For storage, ensure that they are stacked in 2 layers or less even when placed upright.

1.3.2 OPTICAL FILTER (ON THE FRONT OF THE LCD PANEL)

(1) **Avoid placing the unit under direct sunlight over a prolonged period of time.** This may cause the optical filter to deteriorate in quality and color.

(2) **Clean the filter surface by wiping it softly and lightly with a soft and lightly fuzz cloth (such as outing flannel).**

(3) **Do not use solvents such as benzene or thinner to wipe the filter surface.** This may cause the filter to deteriorate in quality or the coating on the surface to come off. When cleaning the filter, usually use the neutral detergent diluted with water. When cleaning the dirty filter, use water-diluted ethanol.

(4) **Since the filter surface is fragile, do not scratch or hit it with hard materials.** Be careful enough not to touch the front surface, especially when taking the unit out of the packing case or during transportation.

1.3.3 PRECAUTIONS FOR REPLACEMENT OF EXTERIOR PARTS

Take note of the following when replacing exterior parts (REAR COVER, FRONT PANEL, etc.):

(1) **Do not exert pressure on the front of the LCD panel (filter surface).** It may cause irregular color.

(2) **Pay careful attention not to scratch or stain the front of the LCD panel (filter surface) with hands.**

(3) **When replacing exterior parts, the front (LCD panel) should be placed facing downward.** Place a mat, etc. underneath to avoid causing scratches to the front (filter surface).

SECTION 2

SPECIFIC SERVICE INSTRUCTIONS

2.1 FEATURES

- New chassis design enable use of an interactive on screen control.
- MOTION COMPENSATION : With this function, the seamless reproduction of dynamic motion on the screen has been realized.
- Built-in 3 dimension Y/C separate circuit.
- Receive DTV broadcast (1125i / 750p / 525p / 525i)
- Built-in HDCP / Component (Y / Pb / Pr) input.
- Built-in Hyper Sound, BBE circuit.
- DIST is a digital high-definition image processing technology that converts various image input signals such as NTSC(480i), 480p, 720p, and 1080i into a format with the best resolution for a display device such as a plasma display panel, and displays high-definition images.

2.2 TECHNICAL INFORMATION

2.2.1 LCD PANEL

This unit uses the flat type panel LCD (Liquid Crystal Display) panel that occupies as little space as possible, instead of the conventional CRT (Cathode Ray Tube), as a display unit.

2.2.1.1 STRUCTURE

The LCD panel of the unit is constructed with the metal chassis that surrounds the panel unit and supports the LCD panel part and the backlight part to protect them.

The color filter glass and the TFT glass (thin film transistor) are inserted between the front polarizing filter and the rear polarizing filter. Liquid crystals are inserted between the color filter glass and the TFT glass. Since the gap between the two glasses is only a few μm , a spacer (bead) is inserted in the gap to retain the gap.

The backlight unit is placed behind the LCD panel. Since liquid crystals themselves do not emit light, the backlight as an external light source emits light to the LCD panel from behind through the diffuser.

Circuit boards for controlling the LCD panel and the backlight are attached around the back part of the LCD panel unit.

Since the unit has the two polarizing filter that are at right angles to each other, the unit adopts "normally black" mode, where light does not pass through the polarizing filter and the screen is black when no voltage is applied to the liquid crystals.

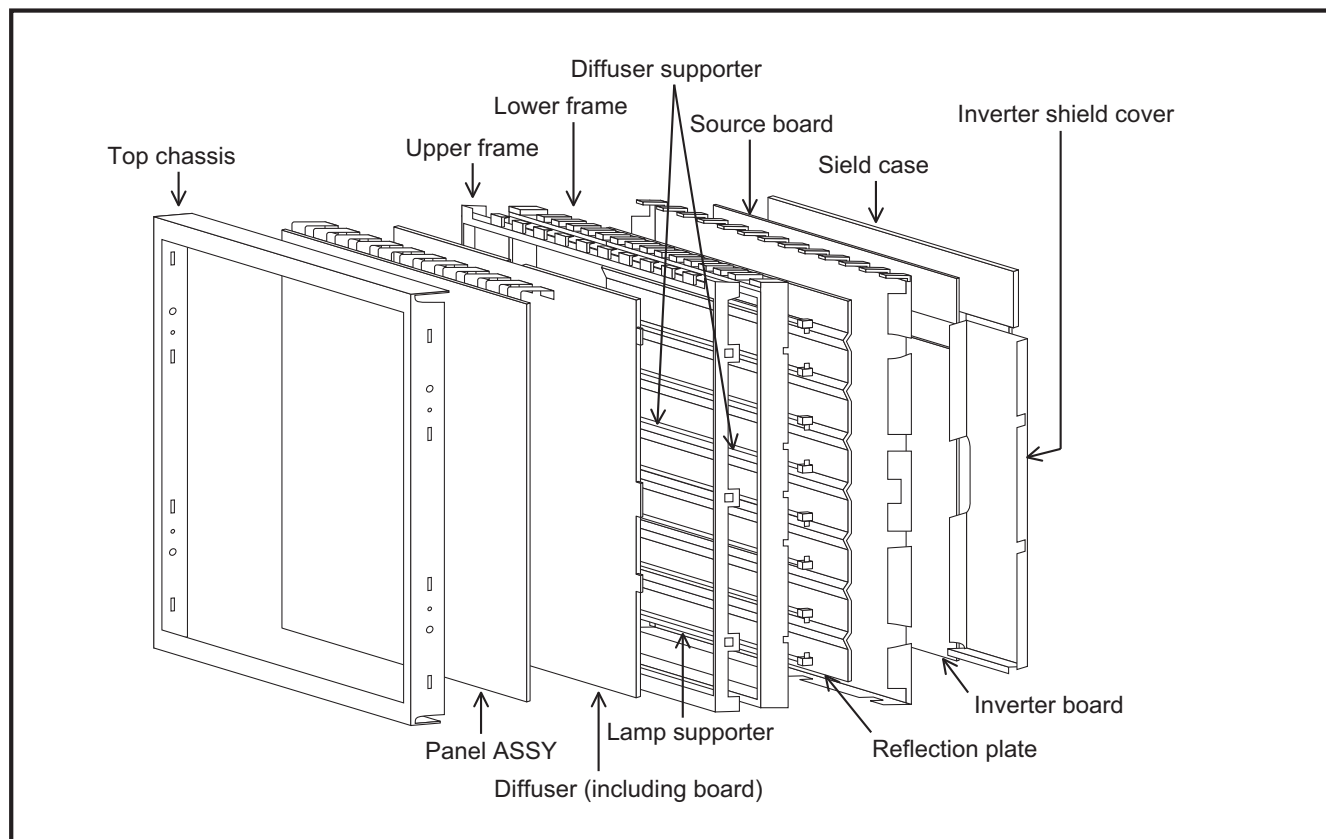


Fig.1 Structure of the LCD panel unit

2.2.1.2 SPECIFICATIONS

The following table shows the specifications of this unit.

Item	Specifications	Remarks
Maximum dimensions (W × H × D)	62.7cm × 38.9cm × 4.9cm	
Weight	8.0kg	
Effective screen size	Diagonal : 66cm (H:33.9cm × V : 56.6cm)	26V type
Aspect ratio	15:9	
Drive device/ system	a-Si-TFT, active matrix system	
Resolution	Horizontally 1280 × Vertically 768 × RGB <W-XGA>	2949120 dots in total
Pixel pitch (pixel size)	Horizontally:0.4425mm, Vertically:0.4425mm	
Displayed color	16777216 colors	256 colors for R, G, and B
Brightness	450cd/m ²	500cd/m ² at maximum
Contrast ratio	500:1	
Response time	16.7ms	
View angle	Vertically 170°, horizontally 170°	

2.2.1.3 PIXEL FAULT

There are three pixel faults - bright fault , dark fault and flicker fault - that are respectively defined as follows.

(1) BRIGHT FAULT

In this pixel fault, a cell that should not light originally is lighting on and off.

For checking this pixel fault, input ALL BLACK SCREEN and find out the cell that is lighting on and off.

(2) DARK FAULT

In this pixel fault, a cell that should light originally is not lighting or lighting with the brightness twice as brighter as originally lighting.

For checking this pixel fault, input 100% of each R/G/B colour and find out the cell that is not lighting.

(3) FLICKER FAULT

In the pixel fault, a cell that should light originally or not light originally is flashing on and off.

For checking this pixel fault, input ALL BLACK SCREEN signal or 100% of each RGB colour and find out the cell that is flashing on and off.

2.2.2 MAIN MICRO COMPUTER (CPU) FUNCTION

Pin No.	Pin name	I/O	Function
1	BS_RXD	O	Not used
2	MICON_V	I	Vertical sync for OSD / CLOSED CAPTION
3	LB_PRO	I	Low B protection detect [Detection : H]
4	NC	---	Not used
5	/RST	I	Reset [Reset : L]
6	HDMI_INT	I	Not used
7	/TEST	I	3.3V
8	OSD_YS	O	YS for OSD / CLOSED CAPTION
9	(DPCRST)	O	Not used
10	BS/DIN	O	Not used
11	(A_MU)(LED_5)	O	Not used
12	MICON_H	I	Horizontal sync for OSD / CLOSED CAPTION
13	(A_MU)(LED_4)	O	Not used
14	P46,OSDXI	---	Not used
15	P45,OSDXO	---	Not used
16	(SDA2)	I/O	Not used
17	AC_IN	I	AC power (60Hz) for time clock
18	(SCL2)	O	Not used
19	(TU_POW)	O	Not used
20	VCOI	I	LPF input
21	PDO	O	LPF output
22	/IP_RESET	O	Reset (L) [Reset : L]
23	OSD_YM	O	YM for OSD / CLOSED CAPTION
24	OSD_B	O	B signal output for OSD / CLOSED CAPTION
25	POW_LED	O	Lighting for power [Lighting : H]
26	OSD_G	O	G for OSD / CLOSED CAPTION
27	OSD_R	O	R for OSD / CLOSED CAPTION
28	VRE	I	Reference voltage
29	IP_ERR	I	AMDP program load
30	IREF	I	Reference current
31	COMP	I	Reference compare
32	AVDD	I	3.3V
33	CLL	O	Not used
34	VREFLS	I	Reference voltage (For SUB CCD)
35	SUB_CCD	I	Not used
36	NC	---	Not used
37	VSS	I	GND
38	MAIN_CCD	I	Not used
39	VREFHS	I	Standard voltage (For Main CCD)
40	CLH	I	Not used
41	VDD/VPP	I	3.3V
42	CLKSW1	O	IP clock switch [ON : L]
43	CLKSW2	O	IP clock switch [ON : L]
44	ON_TIM	O	Not used
45	SBO01	O	Port for writing on board

Pin No.	Pin name	I/O	Function
46	SBD01	I	Port for writing on board / Communication (XTD) for SUB CPU
47	SBT1	I	Port for writing on board / Communication (RTD) for SUB CPU
48	HP_VOL	O	Headpone volume control (0V-3.3V)
49	/BS_RESET	O	Not used
50	HDMI_ASW	O	Not used
51	BS1.5CTL	O	Not used
52	ODU_OUT	O	Not used
53	15/11_SW	O	Not used
54	ODU_PRO	O	Not used
55	BS_POW	---	Not used
56	BS3.3CTL	O	Not used
57	AFT2	I	Not used
58	/LOB_POW	O	Low B power control [Detection : H]
59	COMPULING	I	Not used
60	/POWERGOOD	I	Power condition check [ON : L]
61	MECHA_SW	I	Mechanical (POWER) swtich detection [Pushing : L]
62	/MAIN_POW	O	Main power control [ON : L]
63	NC	---	Not used
64	(B1_POW)	O	Not used
65	AFT1	---	Not used
66	(X_RAY)	I	GND
67	(EE_CDS)	I	GND
68	KEY2	I	Key scan data [ON : H]
69	KEY1	I	Key scan data [ON : H]
70	SCL1	O	I ² C bus clock (For Main memory)
71	SDA1	I/O	I ² C bus data (For Main memory)
72	REMO	I	Remote control data
73	(AP_REQ)(LED_2)	O	Not used
74	VSS	I	GND
75	OSC2	O	4MHz oscillation for system clock
76	OSC1	I	4MHz oscillation for system clock
77	VDD	I	3.3V
78	SCL0	O	I ² C bus clock (For general)
79	(AP_CLK)(LED_1)	O	Not used
80	SDA0	I/O	I ² C bus data (For general)
81	BSLK(D_CLOCK)	O	Not used
82	BS_TXD(D_DATA)	I	Not used
83	NC	---	Not used
84	P_MU	O	Picture muting [Muting : H]

2.2.3 SUB MICRO COMPUTER (CPU) FUNCTION

Pin No.	Pin name	I/O	Function
1	(SYSTEM0)	I	GND
2	(SYSTEM3)	I	GND
3	AVCC	-	5V
4	X2	-	Not used
5	X1	-	Not used
6	VCL	-	Internal down voltage
7	RES	I	Reset [Reset : L]
8	TEST	I	Operation test for SUB CPU
9	VSS	-	GND
10	OSC2	O	10MHz oscillation for system clock
11	OSC1	I	10MHz oscillation for system clock
12	VCC	-	5V
13	NC	O	Not used
14	NC	O	Not used
15	BL_D2	O	Back light 20ms delay for LCD panel [On:L]
16	BL_D1	O	Back light 10ms delay for LCD panel [On:L]
17	I2C_STOP	O	Not used
18	BL_ON	O	Back light reset for LCD panel [Reset:L]
19	NC	O	Not used
20	NC	O	Not used
21	NC	O	Not used
22	NC	O	Not used
23	SDA1	I/O	I ² C bus data (For Sub memory)
24	A.DIM	O	Not used
25	SCL1	O	I ² C bus clock (For Sub memory)
26	SDA0	I/O	I ² C bus data (For general)
27	SCL0	O	I ² C bus clock (For general)
28	NC	O	Not used
29	NC	O	Not used
30	NC	O	Not used
31	NC	O	Not used
32	NC	O	Not used
33	NC	O	Not used
34	NC	O	Not used
35	NMI	I	Port for writing on board [Writing:L]
36	NC	O	Not used
37	(HD)	I	Not used
38	NC	O	Not used
39	(REMO)	I	Not used
40	NC	O	Not used
41	P85	-/I	Not used
42	P86	-	Not used
43	P87	-	Not used
44	SCK3	O	Port for writing on board
45	RXD	I	Port for writing on board

Pin No.	Pin name	I/O	Function
46	TXD	O	Port for writing on board
47	(PROTECTOR0)	I	Not used
48	NC	O	Not used
49	RXD2	I	Port for communication (Main cpu)
50	TXD2	O	Port for communication (Main cpu)
51	NC	O	Not used
52	(ACTIVE)	I	Not used
53	VD	I	Vertical sync
54	(REC_DET)	I	Not used
55	(PSS)	I	Not used
56	(ALARM)	I	Not used
57	(SYSTEM2)	I	Not used
58	(SYSTEM1)	I	Not used
59	(PROTECTOR1)	I	Not used
60	(AMP_PRO2)	I	Not used
61	(AMP_PRO1)	I	Not used
62	EE_CDS	I	Not used
63	(KEY_IN1)	I	Not used
64	(KEY_IN2)	I	Not used

SECTION 3 DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

NOTE:

Since this model adopts a layer structure, follow the procedure below in disassembling this model.
Be careful enough not to damage or scratch parts.

3.1.1 REMOVING THE STAND

- (1) Remove the 2 screws [A], and remove the STAND COVER.
- (2) Remove the 4 screws [B], and remove the STAND.

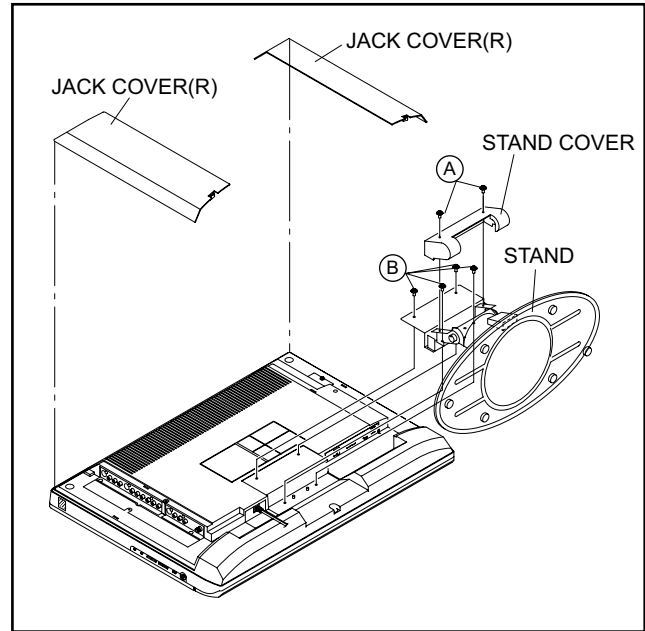


Fig.3-1-1

3.1.2 REMOVING THE REAR COVER

- Remove the STAND.
- (1) Remove the JACK COVER (R).
- (2) Remove the JACK COVER (L).
- (3) Remove the 7 screws [C], 3 screws [D], and 4 screws [E] (14 screws in total).
- (4) Remove the REAR COVER.

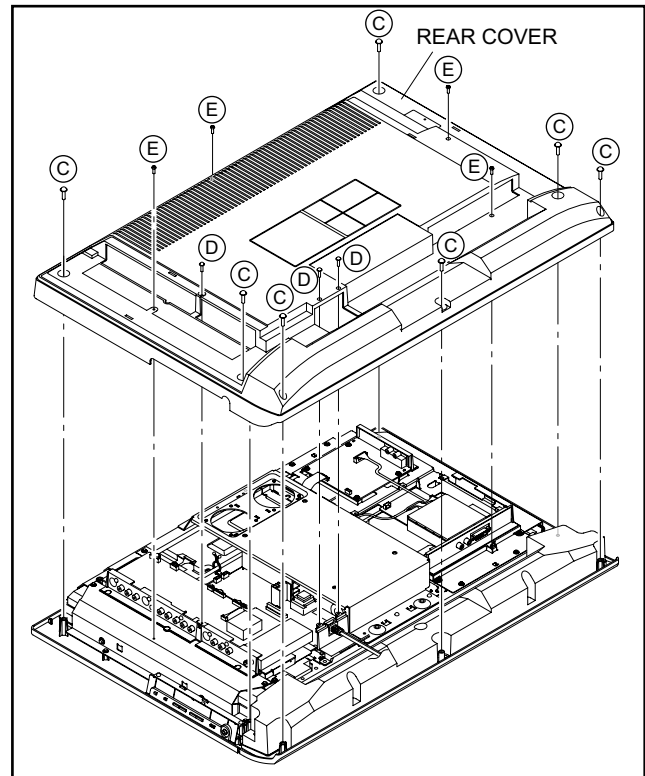


Fig.3-1-2

3.1.3 REMOVING THE FAN BRACKET / REGULATOR PWB / POWER CORD

- Remove the STAND.
- Remove the REAR COVER.
- (1) Pull out the wire of COOLING FAN (the connector [Y] of the POWER PWB).
- (2) Remove the 5 screws [F], and remove the FAN BRACKET.
- (3) Remove the REGULATOR PWB.
- (4) Pull out the POWER CORD.
- (5) Remove 1 screw [G], and remove the POWER CORD HOLDER.

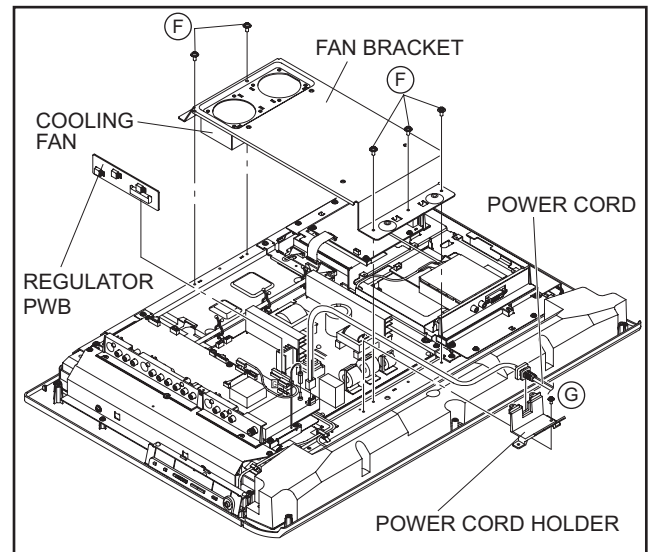


Fig.3-1-3

3.1.4 REMOVING THE RECEIVER PWB

- Remove the STAND.
- Remove the REAR COVER.
- (1) Remove the 3 screws [H] and 3 screws [J] (6 screws in total). Then, remove the TERMINAL BASE.
- (2) Remove the 6 screws [K], and remove the RECEIVER PWB.

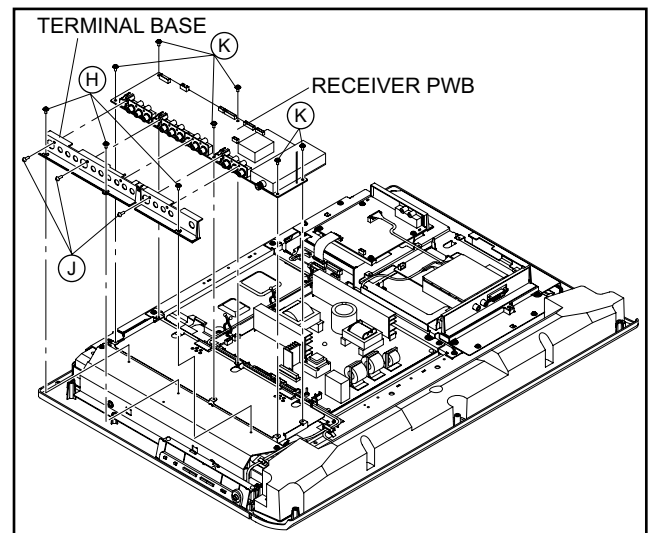


Fig.3-1-4

3.1.5 REMOVING THE FRONT CONTROL PWB CONTROL / FRONT SENSOR PWB

- Remove the STAND.
- Remove the REAR COVER.
- (1) Remove the 2 screws [L], and remove the CONTROL KNOB.
- (2) Remove the 3 screws [M], and remove the FRONT CONTROL PWB.
- (3) Remove the FRONT SENSOR PWB.

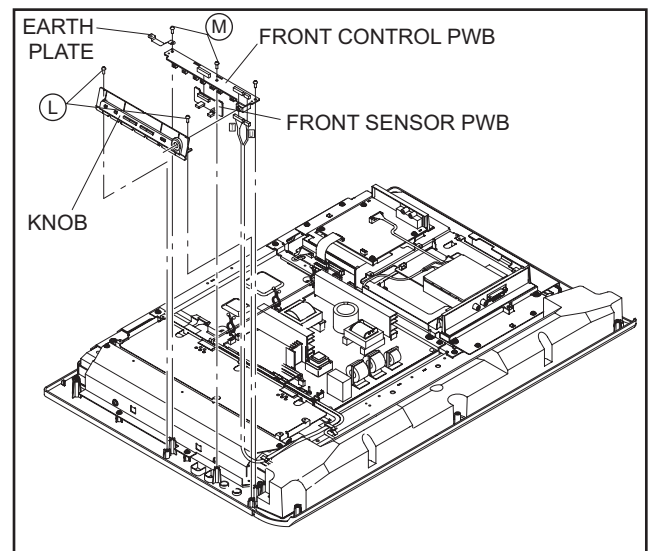


Fig.3-1-5

3.1.6 REMOVING THE VIDEO PWB / DIGITAL INPUT MODULE PWB

- Remove the STAND.
 - Remove the REAR COVER.
- (1) Remove the 1 screw [N] and 1 screw [P]. Then, remove the JACK BASE.
 - (2) Remove the 4 screws [Q], and remove the VIDEO PWB.
 - (3) Remove the 2 screws [R], and remove the DIGITAL INPUT MODULE BASE.
 - (4) Remove the 4 screws [S], and remove the DIGITAL INPUT MODULE PWB.

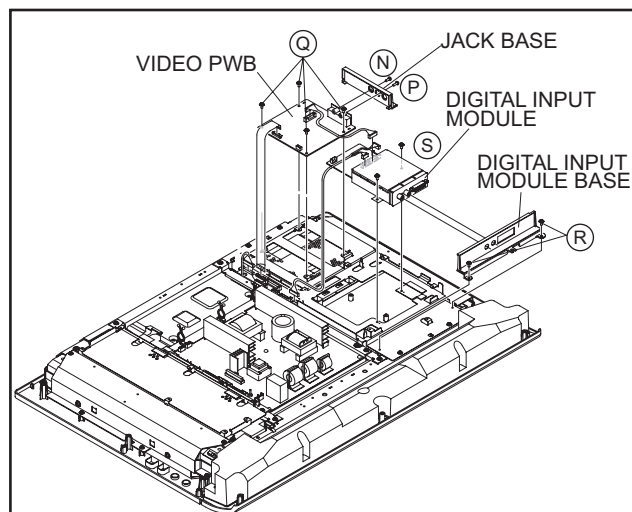
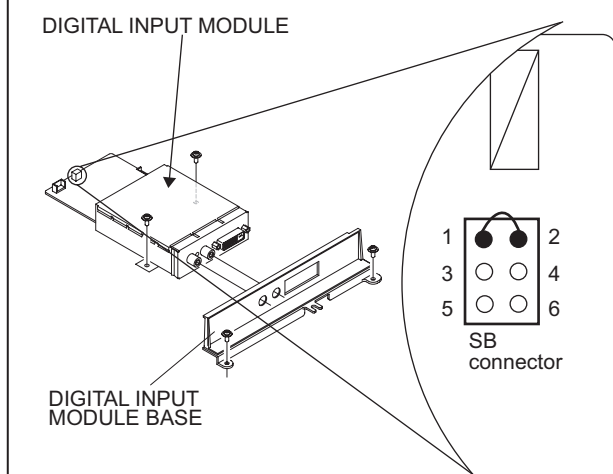


Fig.3-1-6

CAUTION AT DISASSEMBLY



- Prior to disassembly, unplug the power cord from the AC outlet without fail. (Turn the power "off".)
 - Short the SB connector [1] pin and [2] pin of the DIGITAL INPUT MODULE. (At the time of assembling)
 - Before the rear panel is inserted into the cabinet, release the short-circuit between the SB connector [1] pin and [2] pin of the DIGITAL INPUT MODULE.
 - After releasing the short-circuit between the SB connectors, do not turn the power on until the rear panel is inserted into the cabinet.
- * Negligence in carrying out the above steps may cause the inactivation of the TV.

3.1.7 REMOVING THE MI-COM & DIST MODULE PWB

- Remove the STAND.
 - Remove the REAR COVER.
 - DIGITAL INPUT MODULE PWB
- (1) Remove the 7 screws [T], and remove the VIDEO PWB BRACKET.
 - (2) Remove the 4 screws [U], and remove the MI-COM & DIST MODULE PWB from the VIDEO PWB BRACKET.

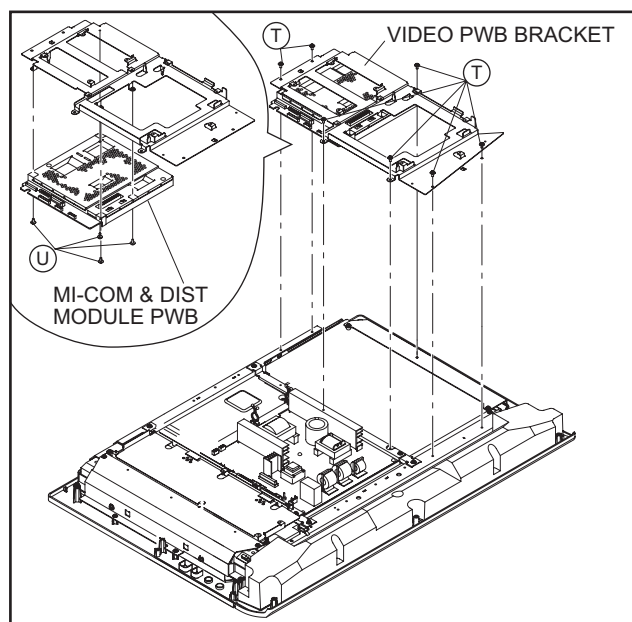


Fig.3-1-7

3.1.8 REMOVING THE POWER PWB

- Remove the STAND.
- Remove the REAR COVER.
- Remove the FAN BRACKET.
- Remove the POWER CORD.
- Remove the RECEIVER PWB.
 - (1) Remove the 4 screws [X], and remove the AV JACK BRACKET.
 - (2) Remove the 6 screws [Y], and remove the POWER PWB.
 - (3) Remove the 6 screws [Z], and remove the CHASSIS BASE.

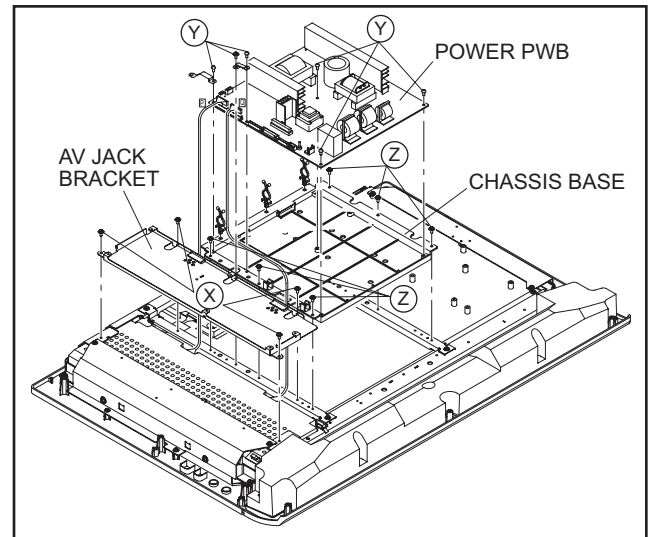


Fig.3-1-8

3.1.9 REMOVING THE SPEAKER

- Remove the STAND.
- Remove the REAR COVER.
- Remove the POWER CORD.
 - (1) Remove the 5 screws [a], and remove the SPEAKER BOX.

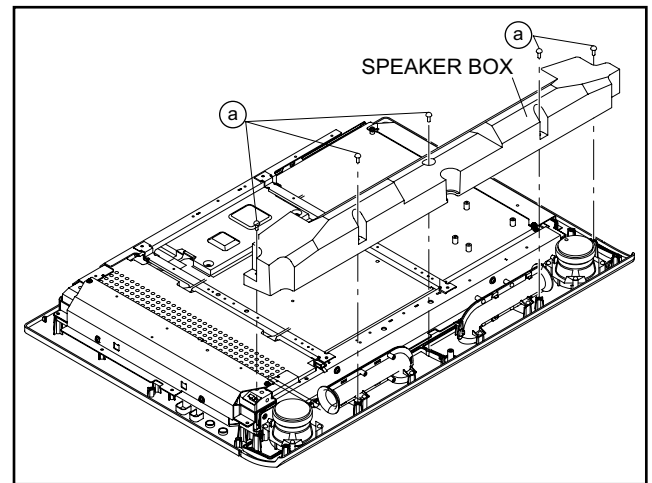


Fig.3-1-9A

- (2) Remove the 4 screws [b], and remove the SPEAKER (L / R).
- (3) Remove the 4 screws [c], and remove the DUCT COVER/ DUCT BASE.

NOTE:

Since the speaker is attached in a certain direction, attach the speaker in the same correct direction as it has been attached.

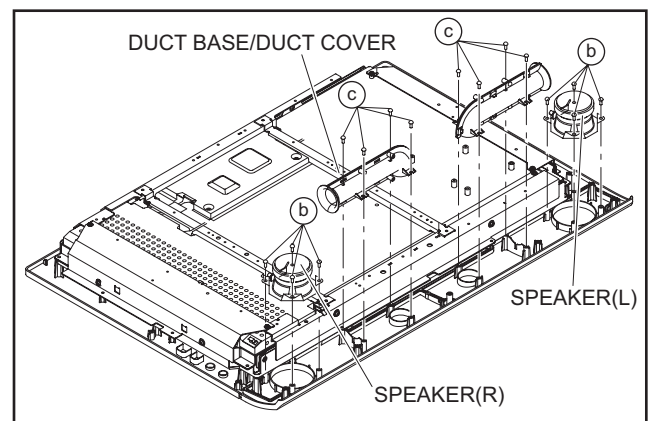


Fig.3-1-9B

3.1.10 REMOVING THE LCD PANEL UNIT

NOTE:

The LCD PANEL is fixed to the FRONT PANEL (at the back side) by using double-side adhesive tapes. To remove the LCD PANEL, remove the adhesive tape on the FRONT PANEL slowly.

- Remove the STAND.
- Remove the REAR COVER.
- Remove the POWER CORD.
- Remove the RECEIVER.
- Remove the FRONT CONTROL PWB.
- Remove the FRONT SENSOR PWB.
- Remove the VIDEO PWB.
- Remove the DIGITAL INPUT MODULE PWB.
- Remove the MI-COM & DIST MODULE PWB.
- Remove the POWER PWB.

(1) Remove the 8 screws [d] and the 2 screws [e] (ten screws in total). Then, remove the LCD PANEL UNIT.

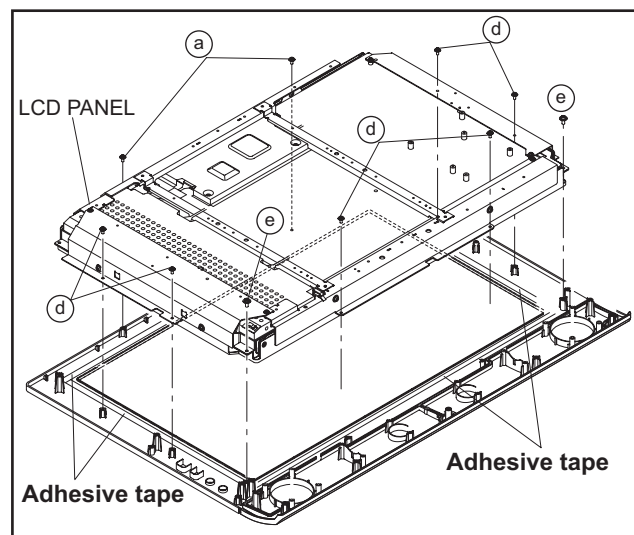


Fig.3-1-10A

(2) Remove the 2 screws [f], and remove the CENTER FRAME (x2).

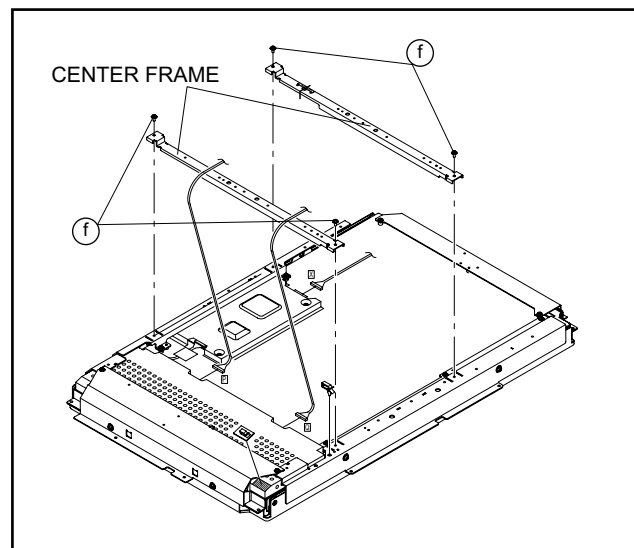


Fig.3-1-10B

(3) Remove the 2 screws [g] and the 2 screws [h] (4 screws in total). Then, remove the FRAME (R).

(4) Remove the 2 screws [g] and the 2 screws [h] (4 screws in total). Then, remove the FRAME (L).

(5) Remove the 2 screws [j], and remove the TOP FRAME.

(6) Remove the 3 screws [k] and the 2 screws [m] (5 screws in total). Then, remove the BOTTOM FRAME.

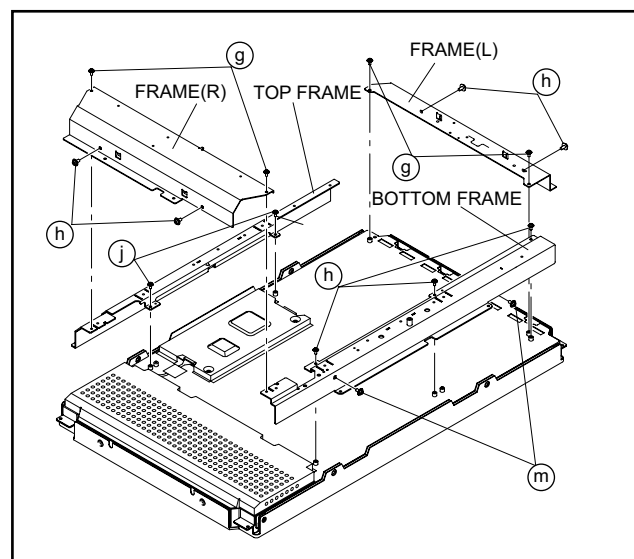


Fig.3-1-10c

3.1.11 REMOVING THE LCD PANEL

3.1.11.1 REMOVING THE CONTROL PWB

- Place the LCD PANEL with its backside facing upward.
Be careful not to damage the surface of the screen.
- (1) Remove the 2 screws [A], and remove the CONTROL PWB COVER.
- (2) Remove the claws in the connectors [FPC RIGHT] and [FPC LEFT], and pull out to remove the FLEXIBLE PWB.

NOTE:

Be careful not to damage the FLEXIBLE PWB.
Especially during assembly procedure, be careful not to insert the FLEXIBLE PWB in the Panel.

- (3) Remove the 2 screws [B], and remove the CONTROL PWB.

[Confirmation after replacement]

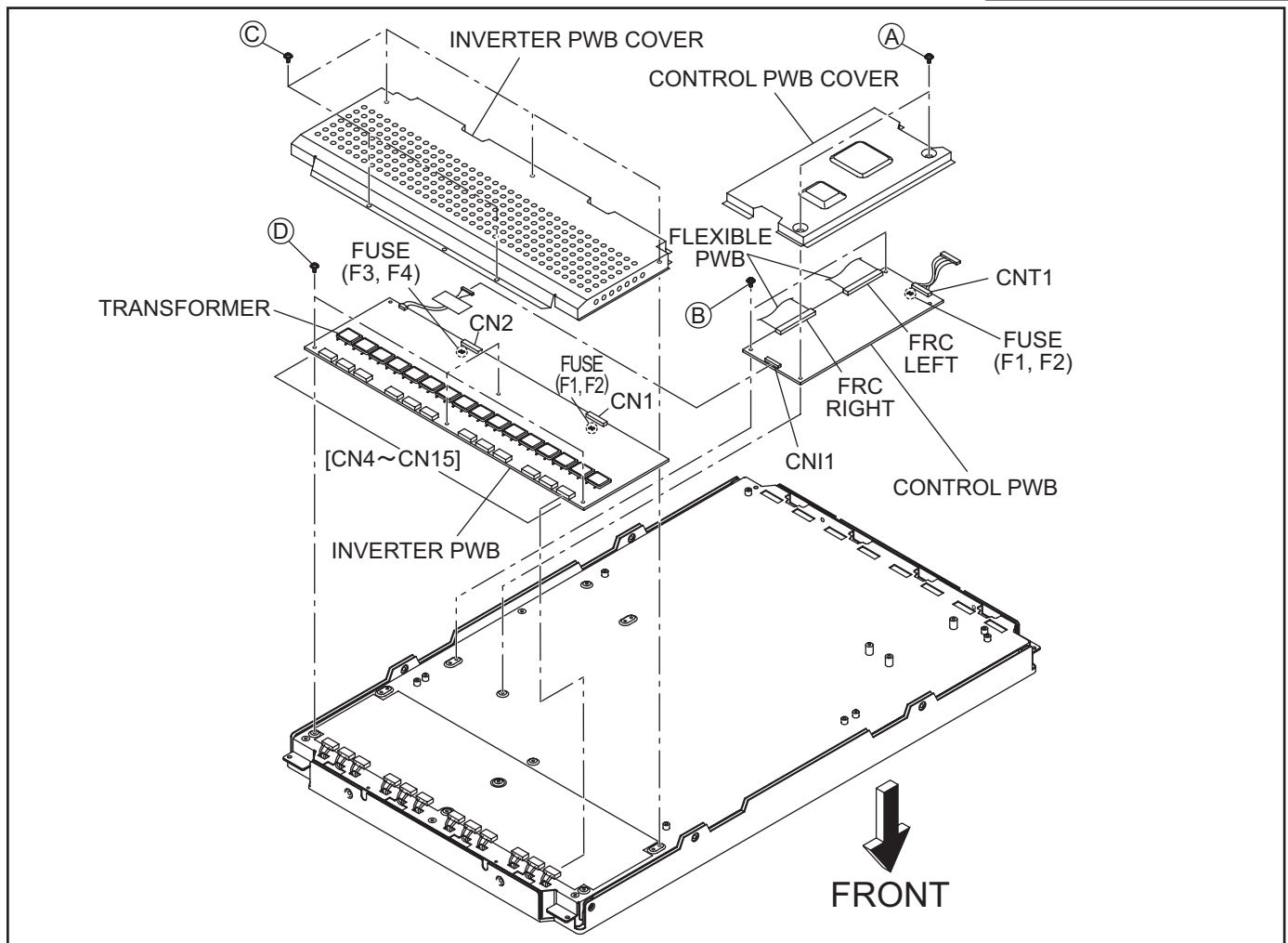
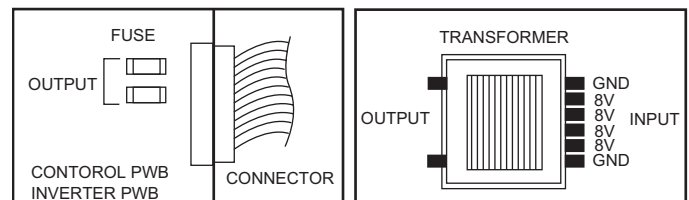
- Confirm that voltage of 10 pin (B/L On/Off) in the connector [CN1] is approx.5.0V.
- Confirm that the voltage in output of the fuses [F1] and [F2] in the connector [CNI1] is approx.5.0V.

3.1.11.2 REMOVING THE INVERTER PWB

- (1) Remove the 5 screws [C], and remove the INVERTER PWB COVER.
- (2) Pull out and remove the wires from connectors [CN4]-[CN15] (12 connectors in total).
- (3) Remove the 4 screws [D], and remove the INVERTER PWB.

[Confirmation after replacement]

- Confirm that the voltage in output of the fuses [F1] and [F2] in the connector [CN1] and the fuses [F3] and [F4] in the connector [CN2] is 16V.
- Confirm that the voltage in input of the TRANSFORMER in the Inverter Board is 8V.
- Be careful about high voltage (approx. AC900V) in output.



3.1.11.3 REMOVING THE BACKLIGHT UNIT

NOTE:

Do not carry out the following procedure in a dusty and dirty place.

If the surface of LCD GLASS, the surface of DIFFUSER SHEET, and the inside of BACKLIGHT UNIT are dusty or dirty, they cause unevenness of a displayed screen.

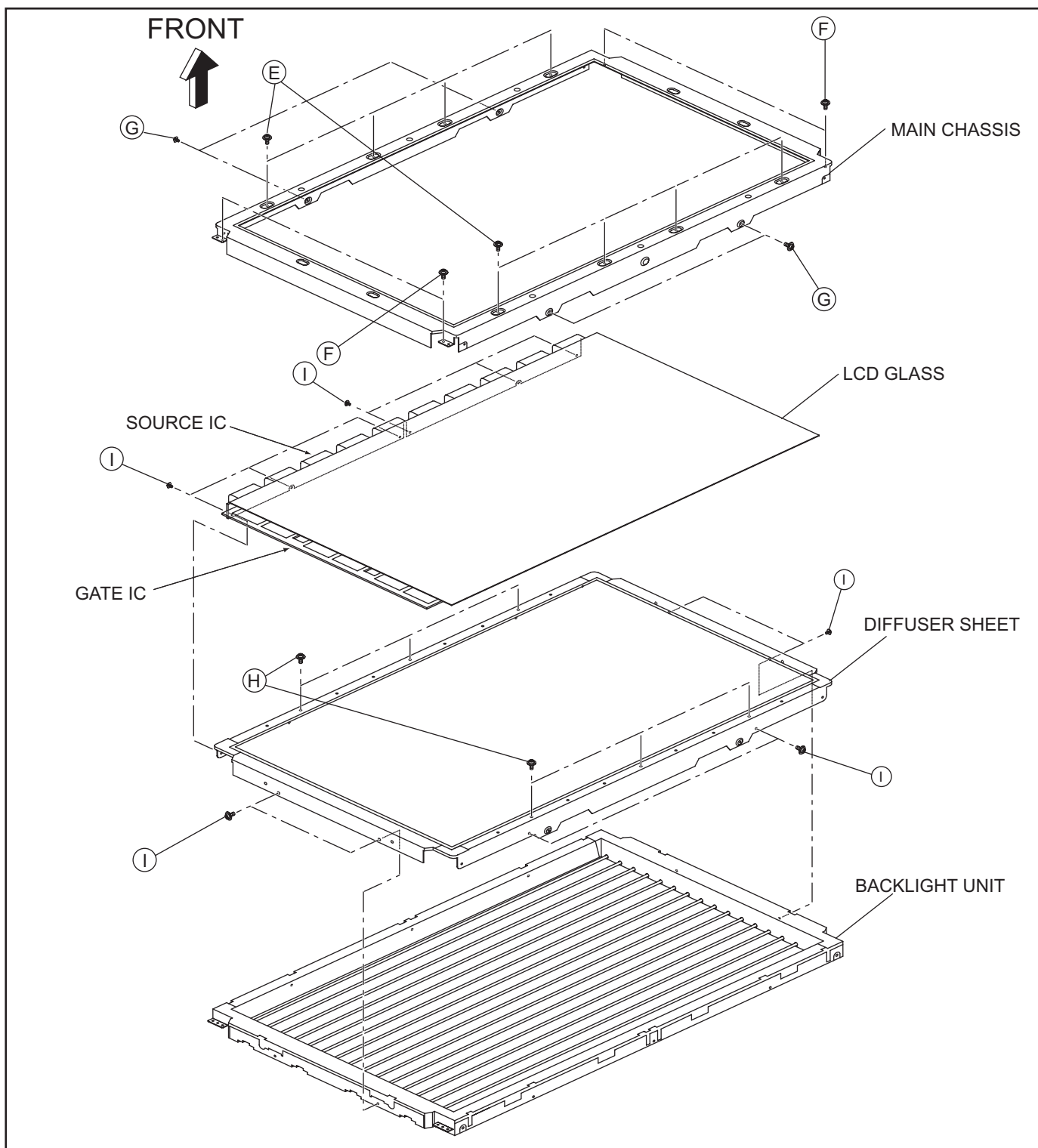
- Remove the CONTROL PWB.
- Remove the INVERTER PWB.
- Place the LCD UNIT with the screen facing upward.

- (1) Remove the 8 screws [E], 4 screws [F], and 4 screws [G] (16 screws in total), and remove the MAIN CHASSIS.

NOTE:

Be careful not to damage the SOURCE IC and the GATE IC on the side of LCD GLASS when removing the MAIN CHASSIS.

- (2) Remove the 6 screws [H] from the top side of the LCD UNIT.
- (3) Remove the 12 screws [I] from the sides of the LCD UNIT. Then, LCD GLASS, DIFFUSER SHEET, and BACKLIGHT UNIT are removed.



3.2 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

3.2.1 MEMORY IC REPLACEMENT PROCEDURE

1. Power off

Switch off the power and disconnect the power plug from the AC outlet.

2. Replace the memory IC

Be sure to use the memory IC written with the initial setting values.

3. Power on

Connect the power plug to the AC outlet and switch on the power.

4. Receiving channel setting

Refer to the OPERATING INSTRUCTIONS and set the receive channels (Channels Preset) as described.

5. User setting

Check the user setting items according to the given in page later. Where these do not agree, refer to the OPERATING INSTRUCTIONS and set the items as described.

6. SERVICE MENU setting

Verify what to set in the SERVICE MENU, and set whatever is necessary (Fig.1). Refer to the SERVICE ADJUSTMENT for setting.

3.2.2 SERVICE MENU SETTING ITEMS

SERVICE MODE

1.PICTURE/SOUND 7.PANEL
2.YC SEP 8.PP
3.WHITE BALANCE 9.IP
4.MEMORY SETUP 0.HDMI
5.RF AFC
6.DD/CM

Fig.1

Setting items	Settings	Item No.
1. PICTURE/SOUND (sound and picture setting)		
Audio circuits (A)	Fixed	A01~A27
Video circuits (S)	Adjust	S01~S99
Drive circuits (D)	Fixed	D01~D32
Factory setting items (F)	Adjust	F01~F59
2. YC SEP (3-dimensional YC separation setting)		
	Adjust	YCM001~YCM185
	Fixed	YCS001~YCS114
3. WHITE BALANCE [Can not adjust]		
4. MEMORY SETUP (Memory data edit) [Do not adjust]		
5. RF AFC: AFC setting (Automatically set) [Do not adjust]		
6. DD/CM (Panel image processing setting)		
	Adjust	DDT01~DDT34
	Fixed	CMT01~CMT57
7. PANEL (Panel power limit control) [Do not adjust]		
	Fixed	PDA001~PDA012
8. PP (Multi-screen processing setting)		
	Adjust	ADM001~ADM034
	Fixed	PPA001~PPA008
	Fixed	PPB001~PPB036
	Fixed	PPC001~PPC008
	Fixed	PPD001~PPD025
9. IP (DIST processing setting) [Do not adjust]		
	Fixed	IPA001~IPA120
	Fixed	IPB001~IPB079
	Fixed	IPC001~IPC044
	Fixed	IPD001~IPD026
	Fixed	IPE001~IPE015
0. HDMI (Digital input process setting) [Do not adjust]		
	Fixed	HDM001~HDM080
	Fixed	RHD001~RHD170

3.2.3 SETTINGS OF FACTORY SHIPMENT

3.2.3.1 BUTTON OPERATION

Setting item	Setting position
POWER	OFF
INPUT	TV
CHANNEL	CABLE-02
VOLUME	10

3.2.3.2 REMOTE CONTROL DIRECT OPERATION

Setting item		Setting position
INPUT		TV
CHANNEL		CABLE-02
VOLUME		10
MUTING		OFF
DISPLAY		OFF
SOUND	A.H.S	OFF
	BBE	ON
	A.H.B	ON
ASPECT	NTSC, 525i,525p	PANORAMA
	750p,1125i	FULL
OFF TIMER		OFF
VIDEO STATUS		DYNAMIC
NATURAL CINEMA		AUTO

3.2.3.3 REMOTE CONTROL MENU OPERATION

(1) PICTURE ADJUSTMENT

Customers can adjust the picture setting of menu screen as their own like but the picture standard value during factory shipment is as below.

■ NTSC MODE

Setting item	PICTURE	BRIGHT	COLOR	TINT	DETAIL	COLOR TEMPERATURE	DIGI. NOISE CLEAR	COLOR MANAGEMENT
DINAMIC	+07	+05	00	00	+04	HIGH	OFF	VIVID
STANDARD	00	00	00	00	00	LOW	OFF	STD
GAME	-05	00	+05	00	-03	HIGH	OFF	STD
THEATER	00	00	00	00	00	HIGH	OFF	STD

■ HD MODE

Setting item	PICTURE	BRIGHT	COLOR	TINT	DETAIL	COLOR TEMPERATURE	DIGI. NOISE CLEAR	COLOR MANAGEMENT
DINAMIC	+04	+06	-08	00	+02	HIGH	OFF	VIVID
STANDARD	00	00	00	00	00	LOW	OFF	STD
GAME	-05	00	+05	00	00	HIGH	OFF	STD
THEATER	00	00	00	00	00	LOW	OFF	STD

(2) SOUND ADJUST

Setting item	Setting position
TREBLE	00
BASS	00
BALANCE	00
MTS	STEREO

(3) CLOCK / TIMERS

Setting item	Setting position
SET CLOCK	---
ON / OFF TIMER	NO

(4) INITIAL SETUP

Setting item	Setting position	Setting item	Setting position
POSITION ADJUSTMENT	Center	NOISE MUTING	ON
VIDEO STATUS	DYNAMIC	FRONT PANEL LOCK	OFF
XDS ID	ON	AUTO SHUT OFF	OFF
POWER INDICATOR	HIGH	DIGITAL-IN	SIZE-1
VIDEO-1 MONITOR OUT	OFF	V-CHIP	OFF
LANGUAGE	KOR	AUTO DEMO	OFF
CLOSED CAPTION	CAPTION	IMAGE SHIFT	STD
	TEXT	V1 SMART INPUT	OFF

3.3 REPLACEMENT OF CHIP COMPONENT

3.3.1 CAUTIONS

- (1) Avoid heating for more than 3 seconds.
- (2) Do not rub the electrodes and the resist parts of the pattern.
- (3) When removing a chip part, melt the solder adequately.
- (4) Do not reuse a chip part after removing it.

3.3.2 SOLDERING IRON

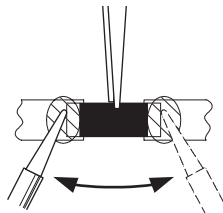
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

3.3.3 REPLACEMENT STEPS

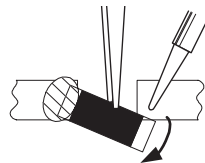
1. How to remove Chip parts

[Resistors, capacitors, etc.]

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



- (2) Shift with the tweezers and remove the chip part.

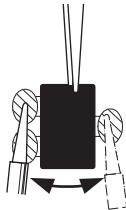


[Transistors, diodes, variable resistors, etc.]

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



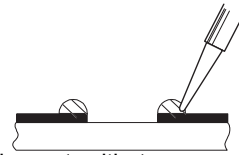
NOTE :

After removing the part, remove remaining solder from the pattern.

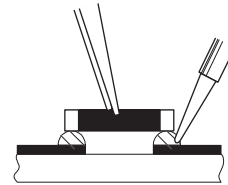
2. How to install Chip parts

[Resistors, capacitors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.

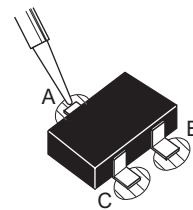


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

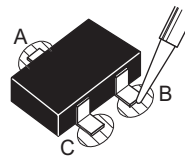


[Transistors, diodes, variable resistors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



- (4) Then solder leads **B** and **C**.



SECTION 4 ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

- (1) There are 2 ways of adjusting this TV : One is with the **REMOTE CONTROL UNIT** and the other is the conventional method using adjustment parts and components.
- (2) The adjustment using the **REMOTE CONTROL UNIT** is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- (3) Make sure that connection is correctly made AC to AC power source.
- (4) Turn on the power of the TV and measuring instruments for warning up for at least 30 minutes before starting adjustments.
- (5) If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- (6) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.
- (7) Preparation for adjustment. Unless otherwise specified in the adjustment items, preset the following functions with the **REMOTE CONTROL UNIT**.

Setting item	Settings
VIDEO STATUS	STANDARD
BRIGHT / CONTRAST / COLOR / TINT	00
COLOR TEMPERATURE	LOW
DIG. NOISE CLEAR	OFF
COLOR MANEGMENT	STANDARD
NATURAL CINEMA	OFF
TREBLE / BASS / BALANCE	00
BBE	OFF
A.H.S	OFF
A.H.B	OFF
ASPECT	FULL

4.2 MEASURING INSTRUMENT AND FIXTURES

- DC voltmeter (or digital voltmeter)
- Oscilloscope
- Signal generator (Pattern generator)
[NTSC / 525i / 525p / 750p / 1125i / DIGITAL]
- TV audio multiplex signal generator
- Remote control unit

4.3 ADJUSTMENT ITEMS

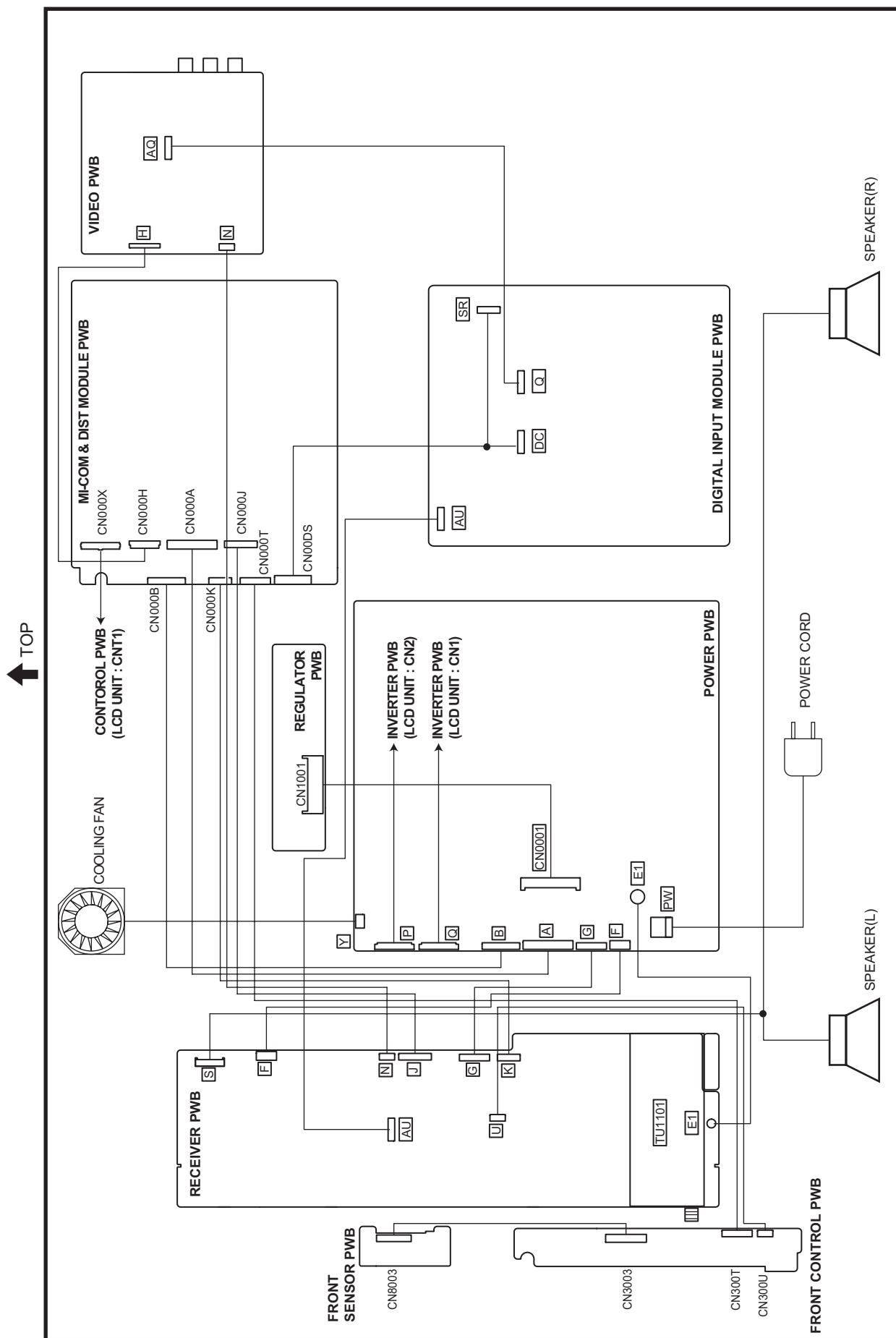
■ VIDEO CIRCUIT

- COMPONENT INPUT BLACK LEVEL adjustment
- COMPONENT INPUT A-D CONVERTER GAIN adjustment
- COMPONENT INPUT A-D CONVERTER OFFSET adjustment
- COMPOSITE INPUT BLACK LEVEL adjustment
- COMPOSITE INPUT A-D CONVERTER OFFSET adjustment
- SUB-SCREEN BLACK LEVEL adjustment
- SUB-SCREEN A-D CONVERTER GAIN adjustment
- WHITE BALANCE (HIGHLIGHT) adjustment

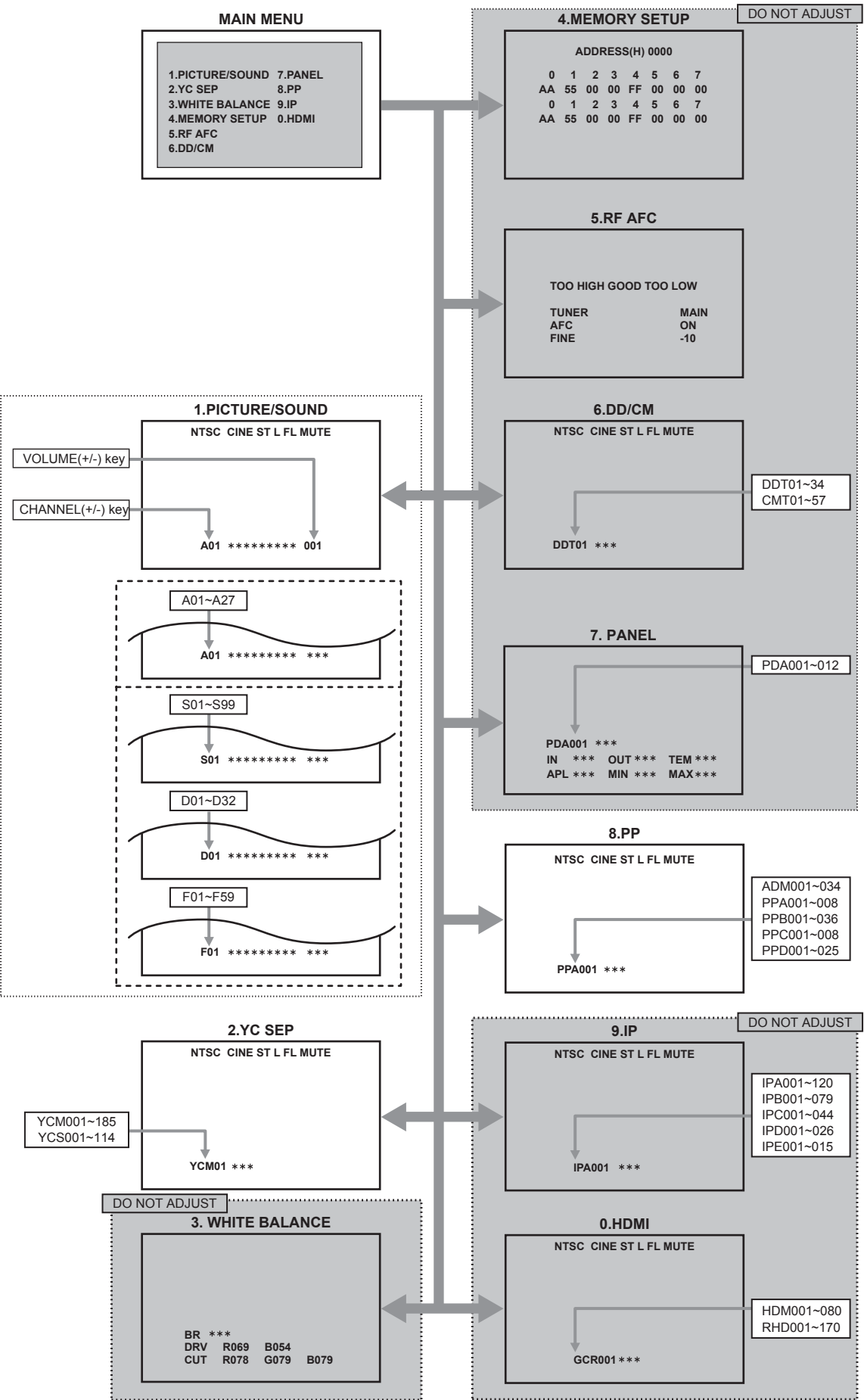
■ MTS CIRCUIT

- MTS INPUT LEVEL adjustment
- MTS SEPARATION adjustment

4.4 ADJUSTMENT LOCATION & WIRING



4.5 BASIC OPERATION OF SERVICE MODE



4.5.1 TOOL OF SERVICE MODE OPERATION

Operate the SERVICE MODE with the REMOTE CONTROL UNIT.

4.5.2 SERVICE MODE ITEMS

In general, basic setting (adjustments) items or verifications are performed in the SERVICE MODE.

1.PICTURE / SOUND	This sets the setting values of the VIDEO, AUDIO and DEFLECTION circuits.
2.YC SEP	This is used when the YC separation circuit is adjusted.
3.WHITE BALANCE	This sets the setting values of the WHITE BALANCE. [Do not adjust]
4.MEMORY SETUP	This sets the setting values of the MEMORY ADDRESS. [Do not adjust]
5.RF AFC	This is used when the IF VCO is adjusted. [Do not adjust]
6.DD/CM	This sets the setting values of the panel image processing.
7.PANEL	This sets the setting values of the panel power limit control.
8.PP	This sets the setting value of the output of MULTI-PICTURE circuit.
9.IP	This sets the setting value of the DIST circuit. [Do not adjust]
0.HDMI	This sets the setting value of the DIGITAL INPUT MODULE circuit. [Do not adjust] .

4.5.3 HOW TO ENTER THE SERVICE MODE

NOTE:

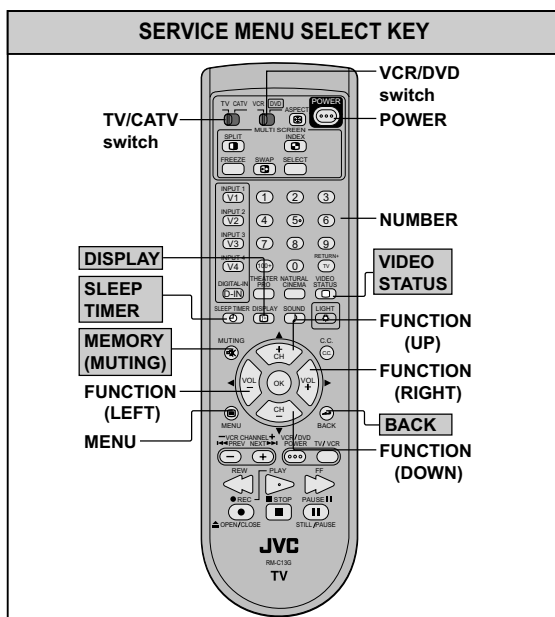
Ensure that the cursor (arrow) of the User Menu screen is pointing at Picture Control.

Before entering the SERVICE MODE, confirm that the setting of TV / CATV switch of the REMOTE CONTROL UNIT is at the "TV" side and the setting of VCR / DVD switch is at the "VCR" side. If the switches have not been properly set, you cannot enter the SERVICE MODE.

- (1) Set to 0 minutes using the [SLEEP TIMER] key.
- (2) Press the [VIDEO STATUS] key and [DISPLAY] key simultaneously, then enter the SERVICE MODE mode.
- (3) When the Main Menu is displayed, press any key of the [0] to [9] key to enter the corresponding menu mode.
*Press any of the [0] to [9] keys before the SERVICE MODE mode disappears.
- (4) Select the service item using the [CH +] / [CH -] key.
- (5) Set the value using the [VOL +] / [VOL -] key.
- (6) Press the [MUTING] key to save the value.

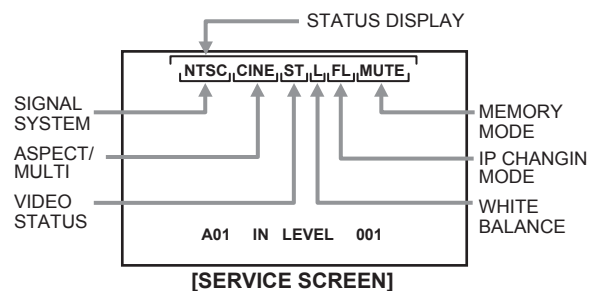
4.5.4 HOW TO EXIT THE SERVICE MODE

Press the [BACK] key to exit the Service mode.



4.5.5 DESCRIPTION OF STATUS DISPLAY

The status display on the upper part of the SERVICE MODE screen is common (to all models).



(1) SIGNAL SYSTEM

- NTSC : Composite, S-video (Y / C), RF, No signal.
- DVD : 525i (component)
- ED : 525p
- HD : 1125i
- 750p : 750p
- HED1 : DIGITAL 525p SIZE1
- HED2 : DIGITAL 525p SIZE2
- HHH : DIGITAL 1125i
- H750 : DIGITAL 750p

(2) ASPECT / MULTI

ONE SCREEN

- FULL : FULL
- PANO : PANORAMA
- CINE : CINEMA
- REGU : REGULAR

MULTI SCREEN

- M1 : One screen (for adjustment)
- M2-1 : SPLIT
- M12 : INDEX

(3) VIDEO STATUS

ST : STANDARD
DA : DYNAMIC
TH : THEATER
GA : GAME

(4) WHITE BALANCE

H : HIGH
L : LOW

(5) IP CHANGING MODE

FL : FRAME
L1 : LINE
23 : COMPULSORY NATURAL CINEMA IN

(6) MEMORY MODE

MUTE : Press [MUTING] key
DIR : Change data then memory at the same time.

4.5.6 SERVICE MODE SETTING

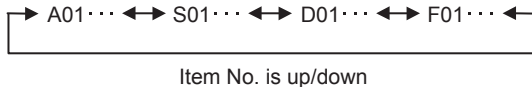
1. PICTURE/SOUND

AUDIO, VIDEO, DEFLECTION data adjustment.

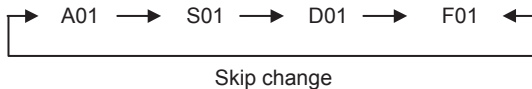
(1) SETTING ITEM No.

A : AUDIO
S : SIGNAL
D : DEFLECTION
F : FACTORY SETTING

- Press [CH+] / [CH-] key



- Press [SLEEP TIMER] key



(2) SETTING ITEM NAME

Describe setting item name

(3) SETTING VALUE

Set the setting value.

- Press [VOL+] / [VOL-] key
Set the setting value.
- Press [MUTING] key
Memorize the data.

NOTE:

Setting for any of the following items that is not included in the "ADJUSTMENT PROCEDURE" section found in the later part of this manual will not be performed in servicing.

2. YC SEP (3D Y/C separation setting)

[Do not change settings of items that are not included in the "ADJUSTMENT PROCEDURE" section.]

Sets output data to the 3D Y/C separation circuit.

- Press [CH+] / [CH-] key
For scrolling up/down the item codes.
- Press [VOL+] / [VOL-] key
For scrolling up/down the data values.

3. WHITE BALANCE (White balance setting)

[Setting for this item is not required in servicing.]

4. MEMORY SETUP (Memory setting)

[Do not change settings]

5. RF AFC

Setting for this item is not required in servicing.

6. DD/CM

[Do not change settings]

Adjustment of color management and device driver

7. PANEL (Panel power limit control)

[Do not change settings]

8. PP (Multi-screen processing setting)

[Do not change settings of items that are not included in the "ADJUSTMENT PROCEDURE" section.]

Sets output data to the multi-screen processing circuit.

- Press [CH+] / [CH-] key
For scrolling up/down the item codes.
- Press [VOL+] / [VOL-] key
For scrolling up/down the data values.

9. IP (DIST setting)

[Do not change settings]

Sets output data to the DIST circuit.

0. HDMI

[Do not change settings]

Sets output data to the DIGITAL INPUT circuit

4.6 INITIAL SETTING VALUES IN THE SERVICE MODE

- Perform fine-tuning based on the "initial values" using the remote control when in the Service mode.
- The "initial values" serve only as an indication rough standard and therefore the values with which optimal display can be achieved may be different from the default values. But, don't change the values that are not written in "ADJUSTMENT PROCEDURE". They are fixed values.

NOTE:

As for the items whose settings are "Fixed" in Table 1 in "3.3 MEMORY IC REPLACEMENT", the following tables show initial values in NTSC signal input mode. As for the items whose conditions of SETTING VALUE are not written in the following tables, the following tables show initial values in NTSC signal input mode.

4.6.1 [1.PICTURE/SOUND]

Item No.	Item	Variable range	Setting value
A01	(Not display)	000~007	001
A02	(Not display)	000~007	001
A03	(Not display)	000~007	001
A04	(Not display)	000~007	000
A05	(Not display)	000~015	003
A06	(Not display)	000~015	004
A07	(Not display)	000~015	006
A08	(Not display)	000~015	003
A09	(Not display)	000~007	006
A10	(Not display)	000~007	004
A11	(Not display)	000~063	063
A12	(Not display)	000~063	063
A13	(Not display)	000~003	000
A14	(Not display)	000~007	000

Item No.	Item	Variable range	Setting value
A15	(Not display)	000~003	000
A16	(Not display)	000~003	000
A17	(Not display)	000~003	000
A18	IN LEVEL	000~015	007
A19	LOW SEP	000~063	026
A20	HI SEP	000~063	063
A21	(Not display)	000~001	(Not used)
A22	(Not display)	000~001	(Not used)
A23	(Not display)	000~001	(Not used)
A24	(Not display)	000~001	(Not used)
A25	(Not display)	000~001	(Not used)
A26	(Not display)	000~001	(Not used)
A27	(Not display)	000~001	(Not used)

Item No.	Item	Variable range	Setting value							
			NTSC		525i		525p		750p/1125i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S01	COLOR	000~255	163	122	163	121	163	124	155	146
S02	TINAD	-127~128	000	000	000	000	000	000	000	000
S03	OF COLOR	-127~128	000	000	000	000	000	000	000	000
S04	OF TINAD	-127~128	000	000	000	000	000	000	000	000
S05	BRIG	000~255	048	060	048	060	048	060	036	043
S06	CONT	000~255	126	126	126	126	126	126	128	128
S07	OF BRIG	-127~128	000	000	000	000	000	000	000	000
S08	OF CONT	-127~128	000	000	000	000	000	000	000	000
S09	BYGN	000~255	133	117	125	116	125	116	147	118
S10	OF BYGN	-127~128	000	000	000	000	000	000	000	000
S11	RYAXIS	-127~128	+006	000	+006	000	+006	000	000	000
S12	MIX	000~003	000	000	000	000	000	000	001	001
S13	RDRV	000~255	255	255	255	255	255	255	246	246
S14	RDRV	-127~128	000	000	000	000	000	000	000	000
S15	GDRV	000~255	254	254	254	254	254	254	255	255
S16	GDRV	-127~128	000	-038	000	-038	000	-038	000	-027
S17	BDRV	000~255	255	255	255	255	255	255	225	225
S18	BDRV	-127~128	000	-043	000	-043	000	-043	000	-038
S19	CUTR	000~255	128	128	128	128	128	128	128	128

Item No.	Item	Variable range	Setting value							
			NTSC		525i		525p		750p/1125i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S20	OF CUTR	-127~128	000	+004	000	+004	000	+004	000	000
S21	CUTG	000~255	128	128	128	128	128	128	128	128
S22	OF CUTG	-127~128	000	000	000	000	000	000	000	000
S23	CUTB	000~255	128	128	128	128	128	128	128	128
S24	OF CUTB	-127~128	000	000	000	000	000	000	000	000
S25	CUTR	000~001	000	000	000	000	000	000	000	000
S26	CUTG	000~001	000	000	000	000	000	000	000	000
S27	CUTB	000~001	000	000	000	000	000	000	000	000
S28	BTHN	000~001	000	000	000	000	000	000	001	000
S29	BCALM	000~001	000	000	000	000	000	000	000	000
S30	BKAKOU	000~031	000	012	000	000	000	000	000	000
S31	BLIM	000~063	010	000	010	000	010	000	002	000
S32	BSTPO	000~063	050	063	050	063	050	063	018	063
S33	BKAKON	000~001	001	001	001	001	001	001	001	001
S34	WTHN	000~001	001	001	001	001	001	001	001	001
S35	WCALM	000~001	000	000	000	000	000	000	000	001
S36	WKAKOU	000~031	000	000	000	000	000	000	000	000
S37	WLIM	000~255	220	213	220	213	220	213	220	225
S38	WSTPO	000~063	050	036	050	036	050	036	050	050
S39	WPEAK	000~063	060	063	060	063	060	063	060	060
S40	WKAKON	000~001	001	001	001	001	001	001	001	001
S41	WGAINC	000~001	000	001	001	001	001	001	001	001
S42	GAINB	000~003	001	000	001	000	001	000	002	000
S43	SLIC	000~031	009	009	009	009	009	009	009	009
S44	APG	000~003	001	001	001	001	001	001	001	001
S45	GAINA	000~003	002	002	002	002	002	002	002	002
S46	(Not used)	000~015	015	015	015	015	015	015	015	015
S47	(Not used)	000~015	015	015	015	015	015	015	015	015
S48	DCTRAN	000~015	015	015	015	015	015	015	015	015

Item No.	Item	Variable range	Setting value	
			MULTI-SCREEN	ASPECT
			SPLIT	REGULAR
S49	HSTR	000~001	001	000
S50	HSTR	000~255	010	018
S51	HEND	000~001	000	000
S52	HEND	000~255	087	079
S53	VSTR	000~001	000	000
S54	VSTR	000~255	026	006
S55	VEND	000~001	000	000
S56	VEND	000~255	077	096
S57	BHSTR	000~255	000	000
S58	BHSTR	000~015	000	000
S59	BHEND	000~255	000	000

Item No.	Item	Variable range	Setting value	
			MULTI-SCREEN	ASPECT
			SPLIT	REGULAR
S60	BHEND	000~015	000	000

Data of the setting value is selected in the order of "SPLIT" and "REGULAR".

Item No.	Item	Variable range	Setting value					
			NTSC		525i/525p		750p/1125i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S61	PLPOL2	000~001	001	001	001	001	001	001
S62	PLEV2	000~127	016	016	016	016	016	016
S63	PLPOL1	000~001	000	000	000	000	000	000
S64	PLEV1	000~127	000	000	000	000	000	000

Item No.	Item	Variable range	Setting value							
			NTSC				525i/525p		750p/1125i	
			MULTI-SCREEN		ASPECT					
			SPLIT		REGULAR					
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S65	MODC	000~003	002	002	002	002	002	002	002	002
S66	RMC	000~003	003	003	001	003	000	003	003	003
S67	RGA	000~003	003	003	003	003	002	003	003	003
S68	CLIP	000~015	000	000	000	000	000	000	000	000
S69	COR	000~063	019	019	019	019	019	019	019	019

Item No.	Item	Variable range	Setting value
S70	TINTON	001~001	001
S71	DRIVER	000~255	240
S72	DRIVEG	000~255	240
S73	DRIVEB	000~255	255
S74	EECONT	000~031	000
S75	EEBRT	000~031	000
S76	EETBRT	-127~128	000
S77	EETCONT	-127~128	000
S78	PICMAX	000~255	255
S79	PICMIN	000~255	000
S80	BRTMAX	000~255	255
S81	BRTMIN	000~255	000
S82	COLMAX	000~255	255
S83	COLMIN	000~255	000
S84	PWMDIM	000~255	216
S85	ADIM	000~255	127
S86	(Not display)	000~255	127
S87	(Not display)	000~007	003
S88	APLGAIN	000~007	000
S89	APLLIM	000~255	000
S90	ABSGAIN	000~127	000
S91	BLKGAIN	000~007	007

Item No.	Item	Variable range	Setting value
S92	BLKLIM	000~031	031
S93	WHTGAIN	000~007	007
S94	WHTLIM	000~031	031
S95	DCSTART	000~255	035
S96	DCGAIN	000~015	006
S97	DCLIM	000~063	035
S98	(Not display)	000~001	000
S99	(Not display)	000~003	000

Item No.	Item	Variable range	Setting value
D01	(Not display)	000~001	000
D02	(Not display)	000~001	000
D03	(Not display)	000~001	000
D04	(Not display)	000~001	000
D05	(Not display)	000~001	000
D06	(Not display)	000~001	000
D07	(Not display)	000~001	000
D08	(Not display)	000~001	000
D09	(Not display)	000~001	000
D10	(Not display)	000~001	000
D11	(Not display)	000~001	000
D12	(Not display)	000~001	000
D13	(Not display)	000~001	000
D14	(Not display)	000~001	000
D15	(Not display)	000~001	000
D16	(Not display)	000~001	000
D17	(Not display)	000~001	000
D18	(Not display)	000~001	000
D19	(Not display)	000~001	000
D20	(Not display)	000~001	000
D21	(Not display)	000~001	000
D22	(Not display)	000~001	000
D23	(Not display)	000~001	000
D24	(Not display)	000~001	000
D25	(Not display)	000~001	000
D26	(Not display)	000~001	000
D27	(Not display)	000~001	000
D28	(Not display)	000~001	000
D29	(Not display)	000~001	000
D30	(Not display)	000~001	000
D31	(Not display)	000~001	000
D32	(Not display)	000~001	000

Item No.	Item	Variable range	Setting value
F01	(Not display)	000~255	001
F02	(Not display)	000~255	000
F03	(Not display)	000~255	000
F04	(Not display)	000~255	032
F05	CATVMAX	000~001	000
F06	(Not display)	000~001	002
F07	(Not display)	000~255	027
F08	(Not display)	000~255	000
F09	AUTOCSR1	000~015	002
F10	AUTOCSR2	000~015	004
F11	AUTOCSR3	000~015	004
F12	AUTOCSR4	000~015	005
F13	AUTOCSR5	000~015	006
F14	AUTOCSR6	000~015	007
F15	AUTOCSR7	000~015	007
F16	(Not display)	000~127	070
F17	(Not display)	000~001	000
F18	FIX DATA	000~001	000
F19	(Not display)	000~001	000
F20	(Not display)	000~255	005
F21	(Not display)	000~255	002
F22	(Not display)	000~001	000
F23	(Not display)	000~255	000
F24	(Not display)	000~255	098
F25	(Not display)	000~255	006
F26	(Not display)	000~255	040
F27	(Not display)	000~255	040
F28	(Not display)	000~001	000
F29	(Not display)	000~001	000
F30	(Not display)	000~001	000
F31	(Not display)	000~001	000
F32	(Not display)	000~001	000
F33	(Not display)	000~001	000
F34	(Not display)	000~001	000
F35	(Not display)	000~001	000
F36	(Not display)	000~001	000
F37	(Not display)	000~001	000
F38	(Not display)	000~001	000
F39	(Not display)	000~001	000
F40	(Not display)	000~001	000

Item No.	Item	Variable range	Setting value				
			NTSC	525i	525p	750p	1125i
F41	(Not display)	000~003	000	002	002	002	002
F42	(Not display)	000~001	000	000	000	000	000
F43	(Not display)	000~063	039	040	037	024	024

Item No.	Item	Variable range	Setting value
F44	(Not display)	000~001	000
F45	(Not display)	000~007	000
F46	OUT LV.	000~255	090
F47	LIMIT B	000~255	000
F48	LIMIT A	000~255	000
F49	(Not display)	000~255	128
F50	(Not display)	000~255	128
F51	(Not display)	000~255	128
F52	(Not display)	000~255	255
F53	(Not display)	000~001	000
F54	(Not display)	000~001	000
F55	(Not display)	000~001	255
F56	(Not display)	000~001	141
F57	(Not display)	000~001	000
F58	(Not display)	000~001	141
F59	(Not display)	000~001	001
F60	(Not display)	000~001	000
F61	(Not display)	000~001	000
F62	(Not display)	000~001	015
F63	ATT GAIN	000~001	001
F64	(Not display)	000~001	073
F65	(Not display)	000~001	001
F66	(Not display)	000~001	000
F67	(Not display)	000~001	070
F68	(Not display)	000~001	000
F69	(Not display)	000~001	000
F70	(Not display)	000~001	000

4.6.2 [2.YC SEP]

NOTE :

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI-SCREEN : SINGLE
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

Item No.	Item	Variable range	Setting value
YCM001	(Not display)	000~001	000
YCM002	(Not display)	000~001	000
YCM003	(Not display)	000~001	000
YCM004	(Not display)	000~003	001
YCM005	(Not display)	000~255	239
YCM006	(Not display)	000~003	001
YCM007	(Not display)	000~255	239
YCM008	(Not display)	000~001	000
YCM009	(Not display)	000~003	000
YCM010	(Not display)	000~001	000
YCM011	(Not display)	000~001	000
YCM012	(Not display)	000~001	000
YCM013	(Not display)	000~001	000
YCM014	(Not display)	000~003	000
YCM015	(Not display)	000~001	000
YCM016	(Not display)	000~003	000
YCM017	(Not display)	000~001	001
YCM018	(Not display)	000~003	000
YCM019	(Not display)	000~001	000
YCM020	(Not display)	000~001	000
YCM021	(Not display)	000~003	002
YCM022	(Not display)	000~007	004
YCM023	(Not display)	000~001	001
YCM024	(Not display)	000~001	000
YCM025	(Not display)	000~015	005
YCM026	(Not display)	000~015	003
YCM027	(Not display)	000~003	000
YCM028	(Not display)	000~007	004
YCM029	(Not display)	000~007	006
YCM030	(Not display)	000~003	000
YCM031	(Not display)	000~001	000
YCM032	(Not display)	000~003	003
YCM033	(Not display)	000~001	001
YCM034	(Not display)	000~001	001
YCM035	(Not display)	000~255	096
YCM036	(Not display)	000~001	001
YCM037	(Not display)	000~003	001
YCM038	(Not display)	000~127	062

Item No.	Item	Variable range	Setting value
YCM039	(Not display)	000~127	068
YCM040	(Not display)	000~003	002
YCM041	(Not display)	000~063	016
YCM042	(Not display)	000~001	000
YCM043	(Not display)	000~001	000
YCM044	(Not display)	000~255	182
YCM045	(Not display)	000~001	000
YCM046	(Not display)	000~255	127
YCM047	(Not display)	000~001	001
YCM048	(Not display)	000~001	001
YCM049	(Not display)	000~001	001
YCM050	(Not display)	000~001	001
YCM051	(Not display)	000~001	000
YCM052	(Not display)	000~001	000
YCM053	(Not display)	000~001	000
YCM054	(Not display)	000~003	003
YCM055	(Not display)	000~003	003
YCM056	(Not display)	000~003	000
YCM057	(Not display)	000~001	000
YCM058	(Not display)	000~001	001
YCM059	(Not display)	000~001	001
YCM060	(Not display)	000~001	000
YCM061	(Not display)	000~001	001
YCM062	(Not display)	000~015	001
YCM063	(Not display)	000~015	005
YCM064	(Not display)	000~003	000
YCM065	(Not display)	000~063	060
YCM066	(Not display)	000~063	040
YCM067	(Not display)	000~063	025
YCM068	(Not display)	000~063	012
YCM069	(Not display)	000~063	036
YCM070	(Not display)	000~063	031
YCM071	(Not display)	000~127	031
YCM072	(Not display)	000~001	001
YCM073	(Not display)	000~001	001
YCM074	(Not display)	000~063	024
YCM075	(Not display)	000~001	000
YCM076	(Not display)	000~001	001
YCM077	(Not display)	000~063	010
YCM078	(Not display)	000~063	001
YCM079	(Not display)	000~255	000
YCM080	(Not display)	000~255	000
YCM081	(Not display)	000~255	000
YCM082	(Not display)	000~255	000

Item No.	Item	Variable range	Setting value
YCM083	(Not display)	000~001	001
YCM084	(Not display)	000~063	012
YCM085	(Not display)	000~001	000
YCM086	(Not display)	000~001	000
YCM087	(Not display)	000~063	028
YCM088	(Not display)	000~001	001
YCM089	(Not display)	000~031	000
YCM090	(Not display)	000~003	000
YCM091	(Not display)	000~015	000
YCM092	(Not display)	000~015	000
YCM093	(Not display)	000~015	003
YCM094	(Not display)	000~063	002
YCM095	(Not display)	000~255	050
YCM096	(Not display)	000~001	000
YCM097	(Not display)	000~063	032
YCM098	(Not display)	000~015	008
YCM099	(Not display)	000~015	005
YCM100	(Not display)	000~015	008
YCM101	(Not display)	000~015	005
YCM102	(Not display)	000~015	000
YCM103	(Not display)	000~015	002
YCM104	(Not display)	000~015	008
YCM105	(Not display)	000~015	006
YCM106	(Not display)	000~255	010
YCM107	(Not display)	000~255	032
YCM108	(Not display)	000~255	031
YCM109	(Not display)	000~255	064
YCM110	(Not display)	000~001	000
YCM111	(Not display)	000~001	001
YCM112	(Not display)	000~001	001
YCM113	(Not display)	000~001	001
YCM114	(Not display)	000~001	000
YCM115	(Not display)	000~001	001
YCM116	(Not display)	000~001	000
YCM117	(Not display)	000~001	000
YCM118	(Not display)	000~001	001
YCM119	(Not display)	000~001	000
YCM120	(Not display)	000~001	000
YCM121	(Not display)	000~003	003
YCM122	(Not display)	000~001	000
YCM123	(Not display)	000~255	000
YCM124	(Not display)	000~001	000
YCM125	(Not display)	000~255	002
YCM126	(Not display)	000~001	000
YCM127	(Not display)	000~001	001

Item No.	Item	Variable range	Setting value
YCM128	(Not display)	000~001	001
YCM129	(Not display)	000~001	001
YCM130	(Not display)	000~003	001
YCM131	(Not display)	000~255	046
YCM132	(Not display)	000~255	152
YCM133	(Not display)	000~255	055
YCM134	(Not display)	000~007	001
YCM135	(Not display)	000~255	136
YCM136	(Not display)	000~001	000
YCM137	(Not display)	000~001	001
YCM138	(Not display)	000~007	003
YCM139	(Not display)	000~255	141
YCM140	(Not display)	000~007	000
YCM141	(Not display)	000~255	014
YCM142	(Not display)	000~001	000
YCM143	(Not display)	000~007	005
YCM144	(Not display)	000~255	128
YCM145	(Not display)	000~001	000
YCM146	(Not display)	000~001	001
YCM147	(Not display)	000~001	001
YCM148	(Not display)	000~001	001
YCM149	(Not display)	000~001	000
YCM150	(Not display)	000~001	000
YCM151	(Not display)	000~255	136
YCM152	(Not display)	000~001	001
YCM153	(Not display)	000~001	001
YCM154	(Not display)	000~001	001
YCM155	(Not display)	000~003	000
YCM156	(Not display)	000~015	015
YCM157	(Not display)	000~015	004
YCM158	(Not display)	000~001	001
YCM159	(Not display)	000~127	004
YCM160	(Not display)	000~001	001
YCM161	(Not display)	000~031	000
YCM162	(Not display)	000~001	000
YCM163	(Not display)	000~015	003
YCM164	(Not display)	000~007	002
YCM165	(Not display)	000~031	016
YCM166	(Not display)	000~255	235
YCM167	(Not display)	000~003	000
YCM168	(Not display)	000~063	000
YCM169	(Not display)	000~015	003
YCM170	(Not display)	000~015	003
YCM171	(Not display)	000~007	000
YCM172	(Not display)	000~255	096

Item No.	Item	Variable range	Setting value
YCM173	(Not display)	000~007	003
YCM174	(Not display)	000~255	056
YCM175	(Not display)	000~001	000
YCM176	(Not display)	000~001	000
YCM177	(Not display)	000~255	022
YCM178	(Not display)	000~001	001
YCM179	(Not display)	000~001	000
YCM180	(Not display)	000~007	003
YCM181	(Not display)	000~003	001
YCM182	(Not display)	000~003	001
YCM183	(Not display)	000~003	001
YCM184	(Not display)	000~003	001
YCM185	(Not display)	000~255	000

Item No.	Item	Variable range	Setting value
YCS001	(Not display)	000~001	000
YCS002	(Not display)	000~001	000
YCS003	(Not display)	000~001	000
YCS004	(Not display)	000~003	001
YCS005	(Not display)	000~255	239
YCS006	(Not display)	000~003	001
YCS007	(Not display)	000~255	239
YCS008	(Not display)	000~001	000
YCS009	(Not display)	000~003	000
YCS010	(Not display)	000~001	000
YCS011	(Not display)	000~001	000
YCS012	(Not display)	000~001	000
YCS013	(Not display)	000~001	000
YCS014	(Not display)	000~003	000
YCS015	(Not display)	000~001	000
YCS016	(Not display)	000~003	000
YCS017	(Not display)	000~001	001
YCS018	(Not display)	000~003	000
YCS019	(Not display)	000~001	000
YCS020	(Not display)	000~001	000
YCS021	(Not display)	000~003	002
YCS022	(Not display)	000~007	004
YCS023	(Not display)	000~001	001
YCS024	(Not display)	000~001	000
YCS025	(Not display)	000~015	005
YCS026	(Not display)	000~015	003
YCS027	(Not display)	000~003	000
YCS028	(Not display)	000~007	004
YCS029	(Not display)	000~007	006
YCS030	(Not display)	000~003	000

Item No.	Item	Variable range	Setting value
YCS031	(Not display)	000~001	000
YCS032	(Not display)	000~003	003
YCS033	(Not display)	000~001	001
YCS034	(Not display)	000~001	001
YCS035	(Not display)	000~255	096
YCS036	(Not display)	000~001	001
YCS037	(Not display)	000~003	001
YCS038	(Not display)	000~127	062
YCS039	(Not display)	000~127	068
YCS040	(Not display)	000~003	002
YCS041	(Not display)	000~063	016
YCS042	(Not display)	000~001	000
YCS043	(Not display)	000~001	000
YCS044	(Not display)	000~255	160
YCS045	(Not display)	000~001	000
YCS046	(Not display)	000~255	111
YCS047	(Not display)	000~001	001
YCS048	(Not display)	000~031	000
YCS049	(Not display)	000~003	000
YCS050	(Not display)	000~015	000
YCS051	(Not display)	000~015	008
YCS052	(Not display)	000~015	001
YCS053	(Not display)	000~063	015
YCS054	(Not display)	000~255	020
YCS055	(Not display)	000~001	000
YCS056	(Not display)	000~063	025
YCS057	(Not display)	000~015	008
YCS058	(Not display)	000~015	005
YCS059	(Not display)	000~015	008
YCS060	(Not display)	000~015	005
YCS061	(Not display)	000~015	000
YCS062	(Not display)	000~015	002
YCS063	(Not display)	000~015	008
YCS064	(Not display)	000~015	006
YCS065	(Not display)	000~255	010
YCS066	(Not display)	000~255	032
YCS067	(Not display)	000~255	031
YCS068	(Not display)	000~255	089
YCS069	(Not display)	000~001	000
YCS070	(Not display)	000~001	001
YCS071	(Not display)	000~001	001
YCS072	(Not display)	000~001	001
YCS073	(Not display)	000~001	000
YCS074	(Not display)	000~001	001
YCS075	(Not display)	000~001	000

Item No.	Item	Variable range	Setting value
YCS076	(Not display)	000~001	000
YCS077	(Not display)	000~001	000
YCS078	(Not display)	000~001	000
YCS079	(Not display)	000~001	000
YCS080	(Not display)	000~003	003
YCS081	(Not display)	000~001	000
YCS082	(Not display)	000~255	000
YCS083	(Not display)	000~255	000
YCS084	(Not display)	000~007	000
YCS085	(Not display)	000~255	010
YCS086	(Not display)	000~001	001
YCS087	(Not display)	000~001	001
YCS088	(Not display)	000~001	000
YCS089	(Not display)	000~001	000
YCS090	(Not display)	000~255	136
YCS091	(Not display)	000~001	001
YCS092	(Not display)	000~001	001
YCS093	(Not display)	000~001	001
YCS094	(Not display)	000~003	000
YCS095	(Not display)	000~015	015
YCS096	(Not display)	000~015	002
YCS097	(Not display)	000~001	001
YCS098	(Not display)	000~127	007
YCS099	(Not display)	000~031	000
YCS100	(Not display)	000~001	000
YCS101	(Not display)	000~015	003
YCS102	(Not display)	000~007	002
YCS103	(Not display)	000~031	016
YCS104	(Not display)	000~255	235
YCS105	(Not display)	000~003	000
YCS106	(Not display)	000~063	000
YCS107	(Not display)	000~015	003
YCS108	(Not display)	000~015	003
YCS109	(Not display)	000~001	000
YCS110	(Not display)	000~003	001
YCS111	(Not display)	000~003	001
YCS112	(Not display)	000~003	001
YCS113	(Not display)	000~003	001
YCS114	(Not display)	000~255	000

4.6.3 [3.WHITE BALANCE]

NOTE :

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI-SCREEN : SINGLE
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

Item No.	Item	Variable range	Setting value
BR	(Not display)	00000~238	000
DRV R	(Not display)	00000~255	000
DRV B	(Not display)	00000~255	000
CUT R	(Not display)	00000~255	000
CUT G	(Not display)	00000~255	000
CUT B	(Not display)	00000~255	000

4.6.4 [6.DD/CM]

Item No.	Item	Variable range	Setting value
DDT01	(Not display)	000~015	000
DDT02	(Not display)	000~255	000
DDT03	(Not display)	000~255	000
DDT04	(Not display)	000~255	255
DDT05	(Not display)	000~255	254
DDT06	(Not display)	000~255	255
DDT07	(Not display)	000~003	000
DDT08	(Not display)	000~255	032
DDT09	(Not display)	000~003	000
DDT10	(Not display)	000~255	000
DDT11	(Not display)	000~007	000
DDT12	(Not display)	000~255	115
DDT13	(Not display)	000~255	000
DDT14	(Not display)	000~003	002
DDT15	(Not display)	000~007	000
DDT16	(Not display)	000~255	187
DDT17	(Not display)	000~001	000
DDT18	(Not display)	000~001	000
DDT19	(Not display)	000~063	002
DDT20	(Not display)	000~015	014
DDT21	(Not display)	000~015	014
DDT22	(Not display)	000~015	002
DDT23	(Not display)	000~015	004
DDT24	(Not display)	000~001	000
DDT25	(Not display)	000~001	000
DDT26	(Not display)	000~001	000
DDT27	(Not display)	000~007	000
DDT28	(Not display)	000~255	127
DDT29	(Not display)	000~003	002

Item No.	Item	Variable range	Setting value
DDT30	(Not display)	000~001	000
DDT31	(Not display)	000~007	000
DDT32	(Not display)	000~255	000
DDT33	(Not display)	000~255	000
DDT34	(Not display)	000~255	033

Item No.	Item	Variable range	Setting value
CMT01	(Not display)	000~003	000
CMT02	(Not display)	000~0FF	090
CMT03	(Not display)	000~255	015
CMT04	(Not display)	000~255	030
CMT05	(Not display)	-032~+031	-010
CMT06	(Not display)	-128~+127	000
CMT07	(Not display)	-128~+127	+010
CMT08	(Not display)	-128~+127	+005
CMT09	(Not display)	-128~+127	000
CMT10	(Not display)	000~003	000
CMT11	(Not display)	000~0FF	160
CMT12	(Not display)	000~255	020
CMT13	(Not display)	000~255	020
CMT14	(Not display)	-032~+031	-005
CMT15	(Not display)	-128~+127	+005
CMT16	(Not display)	-128~+127	000
CMT17	(Not display)	-128~+127	000
CMT18	(Not display)	-128~+127	000
CMT19	(Not display)	000~003	000
CMT20	(Not display)	000~0FF	196
CMT21	(Not display)	000~255	025
CMT22	(Not display)	000~255	055
CMT23	(Not display)	-032~+031	000
CMT24	(Not display)	-128~+127	000
CMT25	(Not display)	-128~+127	+010
CMT26	(Not display)	-128~+127	+005
CMT27	(Not display)	-128~+127	+015
CMT28	(Not display)	000~003	001
CMT29	(Not display)	000~0FF	070
CMT30	(Not display)	000~255	035
CMT31	(Not display)	000~255	040
CMT32	(Not display)	-032~+031	000
CMT33	(Not display)	-128~+127	+002
CMT34	(Not display)	-128~+127	+015
CMT35	(Not display)	-128~+127	000
CMT36	(Not display)	-128~+127	+020
CMT37	(Not display)	000~255	064
CMT38	(Not display)	000~255	066

Item No.	Item	Variable range	Setting value
CMT39	(Not display)	000~255	085
CMT40	(Not display)	-128~+127	000
CMT41	(Not display)	-128~+127	+010
CMT42	(Not display)	000~001	000
CMT43	(Not display)	000~0FF	080
CMT44	(Not display)	000~001	001
CMT45	(Not display)	000~0FF	080
CMT46	(Not display)	000~001	000
CMT47	(Not display)	000~0FF	128
CMT48	(Not display)	000~001	000
CMT49	(Not display)	000~001	001
CMT50	(Not display)	-016~+015	000
CMT51	(Not display)	-016~+015	000
CMT52	(Not display)	000~001	000
CMT53	(Not display)	000~001	000
CMT54	(Not display)	000~003	000
CMT55	(Not display)	000~001	000
CMT56	(Not display)	000~001	001
CMT57	(Not display)	000~001	000

4.6.5 [7.PANEL] (*All the values are fixed values.)

Item No.	Item	Variable range	Setting value
PDA001	(Not display)	000~255	000
PDA002	(Not display)	000~255	000
PDA003	(Not display)	000~255	000
PDA004	(Not display)	000~255	000
PDA005	(Not display)	000~001	000
PDA006	(Not display)	000~001	000
PDA007	(Not display)	000~255	000
PDA008	(Not display)	000~255	000
PDA009	(Not display)	000~255	000
PDA010	(Not display)	000~255	000
PDA011	(Not display)	000~255	000
PDA012	(Not display)	000~127	000

4.6.6 [8.PP]

NOTE :

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI-SCREEN : SINGLE
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

Item No.	Item	Variable range	Setting value
ADM001	(Not display)	000~0FF	0D6
ADM002	(Not display)	000~00F	007

Item No.	Item	Variable range	Setting value
ADM003	(Not display)	000~003	001
ADM004	(Not display)	000~007	005
ADM005	(Not display)	000~01F	016
ADM006	(Not display)	000~0FF	036
ADM007	(Not display)	000~0FF	08A
ADM008	(Not display)	000~0FF	020
ADM009	(Not display)	000~0FF	0FF
ADM010	(Not display)	000~0FF	0C6
ADM011	(Not display)	000~0FF	0FF
ADM012	(Not display)	000~07F	03B
ADM013	(Not display)	000~07F	031
ADM014	(Not display)	000~07F	044
ADM015	(Not display)	000~001	001
ADM016	(Not display)	000~001	001
ADM017	(Not display)	000~001	000
ADM018	(Not display)	000~001	001
ADM019	(Not display)	000~001	000
ADM020	(Not display)	000~001	000
ADM021	(Not display)	000~001	001
ADM022	(Not display)	000~001	000
ADM023	(Not display)	000~001	000
ADM024	(Not display)	000~001	001
ADM025	(Not display)	000~001	000
ADM026	(Not display)	000~001	001
ADM027	(Not display)	000~001	001
ADM028	(Not display)	000~001	001
ADM029	(Not display)	000~001	001
ADM030	(Not display)	000~01F	003
ADM031	(Not display)	000~001	001
ADM032	(Not display)	000~001	000
ADM033	(Not display)	000~001	001
ADM034	(Not display)	000~0FF	032

Item No.	Item	Variable range	Setting value
PPA001	(Not display)	000~255	040
PPA002	(Not display)	000~255	000
PPA003	(Not display)	000~255	05A
PPA004	(Not display)	000~255	000
PPA005	(Not display)	000~255	000
PPA006	(Not display)	000~255	001
PPA007	(Not display)	000~255	05A
PPA008	(Not display)	000~255	023

Item No.	Item	Variable range	Setting value
PPB001	(Not display)	000~031	000

Item No.	Item	Variable range	Setting value
PPB002	(Not display)	000~255	000
PPB003	(Not display)	000~255	000
PPB004	(Not display)	000~031	000
PPB005	(Not display)	000~255	000
PPB006	(Not display)	000~255	000
PPB007	(Not display)	000~031	000
PPB008	(Not display)	000~255	000
PPB009	(Not display)	000~255	000
PPB010	(Not display)	000~031	000
PPB011	(Not display)	000~255	000
PPB012	(Not display)	000~255	000
PPB013	(Not display)	000~031	000
PPB014	(Not display)	000~255	000
PPB015	(Not display)	000~255	000
PPB016	(Not display)	000~031	000
PPB017	(Not display)	000~255	000
PPB018	(Not display)	000~255	000
PPB019	(Not display)	000~031	000
PPB020	(Not display)	000~255	000
PPB021	(Not display)	000~255	000
PPB022	(Not display)	000~031	000
PPB023	(Not display)	000~255	000
PPB024	(Not display)	000~255	000
PPB025	(Not display)	000~031	000
PPB026	(Not display)	000~255	000
PPB027	(Not display)	000~255	000
PPB028	(Not display)	000~031	000
PPB029	(Not display)	000~255	000
PPB030	(Not display)	000~255	000
PPB031	(Not display)	000~031	000
PPB032	(Not display)	000~255	000
PPB033	(Not display)	000~255	000
PPB034	(Not display)	000~031	000
PPB035	(Not display)	000~255	000
PPB036	(Not display)	000~255	000

Item No.	Item	Variable range	Setting value
PPC001	(Not display)	000~255	000
PPC002	(Not display)	000~255	00E
PPC003	(Not display)	000~255	002
PPC004	(Not display)	000~001	000
PPC005	(Not display)	000~001	000
PPC006	(Not display)	000~001	000
PPC007	(Not display)	000~001	000
PPC008	(Not display)	000~001	000

Item No.	Item	Variable range	Setting value
PPC007	(Not display)	000~001	01C
PPC008	(Not display)	000~001	004

Item No.	Item	Variable range	Setting value
PPD001	(Not display)	000~255	008
PPD002	(Not display)	000~255	000
PPD003	(Not display)	000~255	019
PPD004	(Not display)	000~255	001
PPD005	(Not display)	000~255	09A
PPD006	(Not display)	000~255	000
PPD007	(Not display)	000~255	019
PPD008	(Not display)	000~255	001
PPD009	(Not display)	000~255	0B3
PPD010	(Not display)	000~255	000
PPD011	(Not display)	000~255	024
PPD012	(Not display)	000~255	001
PPD013	(Not display)	000~255	039
PPD014	(Not display)	000~255	000
PPD015	(Not display)	000~255	096
PPD016	(Not display)	000~255	001
PPD017	(Not display)	000~255	086
PPD018	(Not display)	000~255	000
PPD019	(Not display)	000~255	024
PPD020	(Not display)	000~255	001
PPD021	(Not display)	000~255	050
PPD022	(Not display)	000~255	000
PPD023	(Not display)	000~255	0AA
PPD024	(Not display)	000~255	001
PPD025	(Not display)	000~255	072

4.6.7 [9.IP] (*All the values are fixed values.)

NOTE :

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC

ASPECT : FULL

MULTI-SCREEN : SINGLE

VIDEO STATUS : STANDARD

COLOR TEMPERATURE : LOW

Item No.	Item	Variable range	Setting value
IPA001	(Not display)	000~001	001
IPA002	(Not display)	000~063	015
IPA003	(Not display)	000~063	010
IPA004	(Not display)	000~063	015
IPA005	(Not display)	000~003	001
IPA006	(Not display)	000~003	001
IPA007	(Not display)	000~015	00F

Item No.	Item	Variable range	Setting value
IPA008	(Not display)	000~063	005
IPA009	(Not display)	000~063	000
IPA010	(Not display)	000~063	01F
IPA011	(Not display)	000~063	01F
IPA012	(Not display)	000~063	02F
IPA013	(Not display)	000~003	000
IPA014	(Not display)	000~003	000
IPA015	(Not display)	000~063	00F
IPA016	(Not display)	000~063	005
IPA017	(Not display)	000~001	001
IPA018	(Not display)	000~063	029
IPA019	(Not display)	000~001	001
IPA020	(Not display)	000~001	001
IPA021	(Not display)	000~063	015
IPA022	(Not display)	000~003	000
IPA023	(Not display)	000~063	004
IPA024	(Not display)	000~001	001
IPA025	(Not display)	000~001	001
IPA026	(Not display)	000~063	015
IPA027	(Not display)	000~003	000
IPA028	(Not display)	000~063	005
IPA029	(Not display)	000~063	000
IPA030	(Not display)	000~015	000
IPA031	(Not display)	000~007	000
IPA032	(Not display)	000~063	000
IPA033	(Not display)	000~001	000
IPA034	(Not display)	000~063	000
IPA035	(Not display)	000~001	001
IPA036	(Not display)	000~063	00D
IPA037	(Not display)	000~063	00D
IPA038	(Not display)	000~063	010
IPA039	(Not display)	000~003	001
IPA040	(Not display)	000~003	001
IPA041	(Not display)	000~015	00F
IPA042	(Not display)	000~063	005
IPA043	(Not display)	000~063	005
IPA044	(Not display)	000~063	00C
IPA045	(Not display)	000~063	00C
IPA046	(Not display)	000~063	00F
IPA047	(Not display)	000~003	001
IPA048	(Not display)	000~003	001
IPA049	(Not display)	000~015	00F
IPA050	(Not display)	000~063	008
IPA051	(Not display)	000~001	001
IPA052	(Not display)	000~063	008

Item No.	Item	Variable range	Setting value
IPA053	(Not display)	000~001	001
IPA054	(Not display)	000~001	001
IPA055	(Not display)	000~063	025
IPA056	(Not display)	000~003	000
IPA057	(Not display)	000~063	00A
IPA058	(Not display)	000~001	001
IPA059	(Not display)	000~001	001
IPA060	(Not display)	000~063	025
IPA061	(Not display)	000~003	000
IPA062	(Not display)	000~063	00A
IPA063	(Not display)	000~063	000
IPA064	(Not display)	000~015	000
IPA065	(Not display)	000~007	000
IPA066	(Not display)	000~063	000
IPA067	(Not display)	000~001	000
IPA068	(Not display)	000~063	000
IPA069	(Not display)	000~003	000
IPA070	(Not display)	000~255	000
IPA071	(Not display)	000~015	005
IPA072	(Not display)	000~255	0DC
IPA073	(Not display)	000~001	000
IPA074	(Not display)	000~001	000
IPA075	(Not display)	000~255	016
IPA076	(Not display)	000~001	000
IPA077	(Not display)	000~001	000
IPA078	(Not display)	000~001	000
IPA079	(Not display)	000~001	000
IPA080	(Not display)	000~001	000
IPA081	(Not display)	000~001	000
IPA082	(Not display)	000~001	000
IPA083	(Not display)	000~001	000
IPA084	(Not display)	000~001	000
IPA085	(Not display)	000~001	000
IPA086	(Not display)	000~001	000
IPA087	(Not display)	000~001	000
IPA088	(Not display)	000~001	000
IPA089	(Not display)	000~001	000
IPA090	(Not display)	000~001	000
IPA091	(Not display)	000~015	000
IPA092	(Not display)	000~255	000
IPA093	(Not display)	000~015	003
IPA094	(Not display)	000~255	0FF
IPA095	(Not display)	000~015	000
IPA096	(Not display)	000~255	000
IPA097	(Not display)	000~015	005

Item No.	Item	Variable range	Setting value
IPA098	(Not display)	000~255	0D3
IPA099	(Not display)	000~015	000
IPA100	(Not display)	000~255	000
IPA101	(Not display)	000~015	000
IPA102	(Not display)	000~255	000
IPA103	(Not display)	000~015	000
IPA104	(Not display)	000~255	000
IPA105	(Not display)	000~015	000
IPA106	(Not display)	000~255	000
IPA107	(Not display)	000~015	000
IPA108	(Not display)	000~255	080
IPA109	(Not display)	000~015	000
IPA110	(Not display)	000~255	040
IPA111	(Not display)	000~015	005
IPA112	(Not display)	000~255	040
IPA113	(Not display)	000~015	000
IPA114	(Not display)	000~255	0C0
IPA115	(Not display)	000~015	002
IPA116	(Not display)	000~255	0EF
IPA117	(Not display)	000~001	000
IPA118	(Not display)	000~001	000
IPA119	(Not display)	000~001	000
IPA120	(Not display)	000~001	000

Item No.	Item	Variable range	Setting value
IPB001	(Not display)	000~255	001
IPB002	(Not display)	000~255	00F
IPB003	(Not display)	000~015	000
IPB004	(Not display)	000~255	0B7
IPB005	(Not display)	000~015	002
IPB006	(Not display)	000~255	0C9
IPB007	(Not display)	000~015	002
IPB008	(Not display)	000~255	038
IPB009	(Not display)	000~015	001
IPB010	(Not display)	000~255	0AB
IPB011	(Not display)	000~015	001
IPB012	(Not display)	000~255	01C
IPB013	(Not display)	000~015	000
IPB014	(Not display)	000~255	08E
IPB015	(Not display)	000~015	000
IPB016	(Not display)	000~255	01D
IPB017	(Not display)	000~015	000
IPB018	(Not display)	000~255	01E
IPB019	(Not display)	000~015	000
IPB020	(Not display)	000~255	023

Item No.	Item	Variable range	Setting value
IPB021	(Not display)	000~015	000
IPB022	(Not display)	000~255	03E
IPB023	(Not display)	000~015	001
IPB024	(Not display)	000~255	07B
IPB025	(Not display)	000~015	000
IPB026	(Not display)	000~255	000
IPB027	(Not display)	000~015	004
IPB028	(Not display)	000~255	037
IPB029	(Not display)	000~015	000
IPB030	(Not display)	000~255	04C
IPB031	(Not display)	000~015	000
IPB032	(Not display)	000~255	000
IPB033	(Not display)	000~015	000
IPB034	(Not display)	000~255	000
IPB035	(Not display)	000~015	001
IPB036	(Not display)	000~255	02E
IPB037	(Not display)	000~001	000
IPB038	(Not display)	000~007	000
IPB039	(Not display)	000~015	000
IPB040	(Not display)	000~015	00F
IPB041	(Not display)	000~015	006
IPB042	(Not display)	000~255	000
IPB043	(Not display)	000~015	002
IPB044	(Not display)	000~255	038
IPB045	(Not display)	000~015	003
IPB046	(Not display)	000~255	000
IPB047	(Not display)	000~015	000
IPB048	(Not display)	000~255	0CA
IPB049	(Not display)	000~015	000
IPB050	(Not display)	000~255	0D0
IPB051	(Not display)	000~015	000
IPB052	(Not display)	000~255	000
IPB053	(Not display)	000~015	000
IPB054	(Not display)	000~255	000
IPB055	(Not display)	000~015	000
IPB056	(Not display)	000~255	0C4
IPB057	(Not display)	000~015	006
IPB058	(Not display)	000~255	040
IPB059	(Not display)	000~007	001
IPB060	(Not display)	000~003	000
IPB061	(Not display)	000~003	000
IPB062	(Not display)	000~001	000
IPB063	(Not display)	000~255	000
IPB064	(Not display)	000~255	080
IPB065	(Not display)	000~255	080

Item No.	Item	Variable range	Setting value
IPB066	(Not display)	000~001	000
IPB067	(Not display)	000~015	000
IPB068	(Not display)	000~015	000
IPB069	(Not display)	000~015	000
IPB070	(Not display)	000~015	00F
IPB071	(Not display)	000~255	000
IPB072	(Not display)	000~015	000
IPB073	(Not display)	000~255	000
IPB074	(Not display)	000~001	000
IPB075	(Not display)	000~001	000
IPB076	(Not display)	000~001	000
IPB077	(Not display)	000~015	009
IPB078	(Not display)	000~001	001
IPB079	(Not display)	000~255	042

Item No.	Item	Variable range	Setting value
IPC001	(Not display)	000~003	002
IPC002	(Not display)	000~255	0EA
IPC003	(Not display)	000~001	000
IPC004	(Not display)	000~001	000
IPC005	(Not display)	000~015	000
IPC006	(Not display)	000~255	000
IPC007	(Not display)	000~015	005
IPC008	(Not display)	000~255	0DB
IPC009	(Not display)	000~015	006
IPC010	(Not display)	000~255	071
IPC011	(Not display)	000~015	000
IPC012	(Not display)	000~255	000
IPC013	(Not display)	000~003	001
IPC014	(Not display)	000~001	000
IPC015	(Not display)	000~001	001
IPC016	(Not display)	000~255	0EE
IPC017	(Not display)	000~001	000
IPC018	(Not display)	000~127	000
IPC019	(Not display)	000~001	000
IPC020	(Not display)	000~127	000
IPC021	(Not display)	000~015	001
IPC022	(Not display)	000~255	03F
IPC023	(Not display)	000~003	002
IPC024	(Not display)	000~255	01E
IPC025	(Not display)	000~001	000
IPC026	(Not display)	000~127	00F
IPC027	(Not display)	000~001	000
IPC028	(Not display)	000~127	000
IPC029	(Not display)	000~001	001

Item No.	Item	Variable range	Setting value
IPC030	(Not display)	000~001	000
IPC031	(Not display)	000~001	000
IPC032	(Not display)	000~001	000
IPC033	(Not display)	000~001	001
IPC034	(Not display)	000~001	001
IPC035	(Not display)	000~001	000
IPC036	(Not display)	000~001	000
IPC037	(Not display)	000~001	000
IPC038	(Not display)	000~001	000
IPC039	(Not display)	000~001	000
IPC040	(Not display)	000~001	000
IPC041	(Not display)	000~001	000
IPC042	(Not display)	000~001	000
IPC043	(Not display)	000~001	000
IPC044	(Not display)	000~001	000

Item No.	Item	Variable range	Setting value
IPD001	(Not display)	000~255	040
IPD002	(Not display)	000~255	000
IPD003	(Not display)	000~255	000
IPD004	(Not display)	000~007	000
IPD005	(Not display)	000~255	01C
IPD006	(Not display)	000~007	000
IPD007	(Not display)	000~255	0E1
IPD008	(Not display)	000~001	000
IPD009	(Not display)	000~015	000
IPD010	(Not display)	000~255	012
IPD011	(Not display)	000~015	004
IPD012	(Not display)	000~255	0BB
IPD013	(Not display)	000~007	000
IPD014	(Not display)	000~007	000
IPD015	(Not display)	000~001	000
IPD016	(Not display)	000~001	000
IPD017	(Not display)	000~255	000
IPD018	(Not display)	000~007	000
IPD019	(Not display)	000~255	01D
IPD020	(Not display)	000~007	002
IPD021	(Not display)	000~255	0E6
IPD022	(Not display)	000~001	001
IPD023	(Not display)	000~015	001
IPD024	(Not display)	000~255	00E
IPD025	(Not display)	000~015	004
IPD026	(Not display)	000~255	0C0

Item No.	Item	Variable range	Setting value
IPE001	(Not display)	000~255	001
IPE002	(Not display)	000~255	002
IPE003	(Not display)	000~255	001
IPE004	(Not display)	000~255	002
IPE005	(Not display)	000~255	001
IPE006	(Not display)	000~255	002
IPE007	(Not display)	000~255	001
IPE008	(Not display)	000~255	002
IPE009	(Not display)	-128~+127	+005
IPE010	(Not display)	-128~+127	+006
IPE011	(Not display)	-128~+127	+005
IPE012	(Not display)	-128~+127	-005
IPE013	(Not display)	-128~+127	+0FB
IPE014	(Not display)	-128~+127	+005
IPE015	(Not display)	000~015	001

4.6.8 [0.HDMI] *All the values are fixed values.

Item No.	Item	Variable range	Setting value
HDM001	(Not display)	000~001	000
HDM002	(Not display)	000~001	000
HDM003	(Not display)	000~001	000
HDM004	(Not display)	000~001	000
HDM005	(Not display)	000~001	000
HDM006	(Not display)	000~003	000
HDM007	(Not display)	000~001	000
HDM008	(Not display)	000~001	000
HDM009	(Not display)	000~001	000
HDM010	(Not display)	000~001	000
HDM011	(Not display)	000~001	000
HDM012	(Not display)	000~001	000
HDM013	(Not display)	000~001	000
HDM014	(Not display)	000~001	000
HDM015	(Not display)	000~001	000
HDM016	(Not display)	000~255	000
HDM017	(Not display)	000~255	000
HDM018	(Not display)	000~255	000
HDM019	(Not display)	000~001	000
HDM020	(Not display)	000~255	000
HDM021	(Not display)	000~007	000
HDM022	(Not display)	000~063	000
HDM023	(Not display)	000~063	000
HDM024	(Not display)	000~063	000
HDM025	(Not display)	000~001	000
HDM026	(Not display)	000~003	000
HDM027	(Not display)	000~255	000

Item No.	Item	Variable range	Setting value
HDM028	(Not display)	000~003	000
HDM029	(Not display)	000~255	000
HDM030	(Not display)	000~003	000
HDM031	(Not display)	000~255	000
HDM032	(Not display)	000~003	000
HDM033	(Not display)	000~255	000
HDM034	(Not display)	000~003	000
HDM035	(Not display)	000~255	000
HDM036	(Not display)	000~255	000
HDM037	(Not display)	000~255	000
HDM038	(Not display)	000~255	000
HDM039	(Not display)	000~001	000
HDM040	(Not display)	000~001	000
HDM041	(Not display)	000~001	000
HDM042	(Not display)	000~255	000
HDM043	(Not display)	000~007	000
HDM044	(Not display)	000~003	000
HDM045	(Not display)	000~003	000
HDM046	(Not display)	000~001	000
HDM047	(Not display)	000~015	000
HDM048	(Not display)	000~255	000
HDM049	(Not display)	000~255	000
HDM050	(Not display)	000~015	000
HDM051	(Not display)	000~001	000
HDM052	(Not display)	000~001	000
HDM053	(Not display)	000~001	000
HDM054	(Not display)	000~001	000
HDM055	(Not display)	000~001	000
HDM056	(Not display)	000~001	000
HDM057	(Not display)	000~001	000
HDM058	(Not display)	000~001	000
HDM059	(Not display)	000~001	000
HDM060	(Not display)	000~001	000
HDM061	(Not display)	000~001	000
HDM062	(Not display)	000~001	000
HDM063	(Not display)	000~001	000
HDM064	(Not display)	000~001	000
HDM065	(Not display)	000~001	000
HDM066	(Not display)	000~001	000
HDM067	(Not display)	000~001	000
HDM068	(Not display)	000~031	000
HDM069	(Not display)	000~001	000
HDM070	(Not display)	000~001	000
HDM071	(Not display)	000~001	000
HDM072	(Not display)	000~001	000

Item No.	Item	Variable range	Setting value
HDM073	(Not display)	000~001	000
HDM074	(Not display)	000~031	000
HDM075	(Not display)	000~001	000
HDM076	(Not display)	000~001	000
HDM077	(Not display)	000~001	000
HDM078	(Not display)	000~001	000
HDM079	(Not display)	000~001	000
HDM080	(Not display)	000~001	000

Item No.	Item	Variable range	Setting value
RHD001	(Not display)	---	000
RHD002	(Not display)	---	000
RHD003	(Not display)	---	000
RHD004	(Not display)	---	000
RHD005	(Not display)	---	000
RHD006	(Not display)	---	000
RHD007	(Not display)	---	000
RHD008	(Not display)	---	000
RHD009	(Not display)	---	000
RHD010	(Not display)	---	000
RHD011	(Not display)	---	000
RHD012	(Not display)	---	000
RHD013	(Not display)	---	000
RHD014	(Not display)	---	000
RHD015	(Not display)	---	000
RHD016	(Not display)	---	000
RHD017	(Not display)	---	000
RHD018	(Not display)	---	000
RHD019	(Not display)	---	000
RHD020	(Not display)	---	000
RHD021	(Not display)	---	000
RHD022	(Not display)	---	000
RHD023	(Not display)	---	000
RHD024	(Not display)	---	000
RHD025	(Not display)	---	000
RHD026	(Not display)	---	000
RHD027	(Not display)	---	000
RHD028	(Not display)	---	000
RHD029	(Not display)	---	000
RHD030	(Not display)	---	000
RHD031	(Not display)	---	000
RHD032	(Not display)	---	000
RHD033	(Not display)	---	000
RHD034	(Not display)	---	000
RHD035	(Not display)	---	000

Item No.	Item	Variable range	Setting value
RHD036	(Not display)	---	000
RHD037	(Not display)	---	000
RHD038	(Not display)	---	000
RHD039	(Not display)	---	000
RHD040	(Not display)	---	000
RHD041	(Not display)	---	000
RHD042	(Not display)	---	000
RHD043	(Not display)	---	000
RHD044	(Not display)	---	000
RHD045	(Not display)	---	000
RHD046	(Not display)	---	000
RHD047	(Not display)	---	000
RHD048	(Not display)	---	000
RHD049	(Not display)	---	000
RHD050	(Not display)	---	000
RHD051	(Not display)	---	000
RHD052	(Not display)	---	000
RHD053	(Not display)	---	000
RHD054	(Not display)	---	000
RHD055	(Not display)	---	000
RHD056	(Not display)	---	000
RHD057	(Not display)	---	000
RHD058	(Not display)	---	000
RHD059	(Not display)	---	000
RHD060	(Not display)	---	000
RHD061	(Not display)	---	000
RHD062	(Not display)	---	000
RHD063	(Not display)	---	000
RHD064	(Not display)	---	000
RHD065	(Not display)	---	000
RHD066	(Not display)	---	000
RHD067	(Not display)	---	000
RHD068	(Not display)	---	000
RHD069	(Not display)	---	000
RHD070	(Not display)	---	000
RHD071	(Not display)	---	000
RHD072	(Not display)	---	000
RHD073	(Not display)	---	000
RHD074	(Not display)	---	000
RHD075	(Not display)	---	000
RHD076	(Not display)	---	000
RHD077	(Not display)	---	000
RHD078	(Not display)	---	000
RHD079	(Not display)	---	000
RHD080	(Not display)	---	000

Item No.	Item	Variable range	Setting value
RHD081	(Not display)	---	000
RHD082	(Not display)	---	000
RHD083	(Not display)	---	000
RHD084	(Not display)	---	000
RHD085	(Not display)	---	000
RHD086	(Not display)	---	000
RHD087	(Not display)	---	000
RHD088	(Not display)	---	000
RHD089	(Not display)	---	000
RHD090	(Not display)	---	000
RHD091	(Not display)	---	000
RHD092	(Not display)	---	000
RHD093	(Not display)	---	000
RHD094	(Not display)	---	000
RHD095	(Not display)	---	000
RHD096	(Not display)	---	000
RHD097	(Not display)	---	000
RHD098	(Not display)	---	000
RHD009	(Not display)	---	000
RHD100	(Not display)	---	000
RHD101	(Not display)	---	000
RHD102	(Not display)	---	000
RHD103	(Not display)	---	000
RHD104	(Not display)	---	000
RHD105	(Not display)	---	000
RHD106	(Not display)	---	000
RHD107	(Not display)	---	000
RHD108	(Not display)	---	000
RHD109	(Not display)	---	000
RHD110	(Not display)	---	000
RHD111	(Not display)	---	000
RHD112	(Not display)	---	000
RHD113	(Not display)	---	000
RHD114	(Not display)	---	000
RHD115	(Not display)	---	000
RHD116	(Not display)	---	000
RHD117	(Not display)	---	000
RHD118	(Not display)	---	000
RHD119	(Not display)	---	000
RHD120	(Not display)	---	000
RHD121	(Not display)	---	000
RHD122	(Not display)	---	000
RHD123	(Not display)	---	000
RHD124	(Not display)	---	000
RHD125	(Not display)	---	000

Item No.	Item	Variable range	Setting value
RHD126	(Not display)	---	000
RHD127	(Not display)	---	000
RHD128	(Not display)	---	000
RHD129	(Not display)	---	000
RHD130	(Not display)	---	000
RHD131	(Not display)	---	000
RHD132	(Not display)	---	000
RHD133	(Not display)	---	000
RHD134	(Not display)	---	000
RHD135	(Not display)	---	000
RHD136	(Not display)	---	000
RHD137	(Not display)	---	000
RHD138	(Not display)	---	000
RHD139	(Not display)	---	000
RHD140	(Not display)	---	000
RHD141	(Not display)	---	000
RHD142	(Not display)	---	000
RHD143	(Not display)	---	000
RHD144	(Not display)	---	000
RHD145	(Not display)	---	000
RHD146	(Not display)	---	000
RHD147	(Not display)	---	000
RHD148	(Not display)	---	000
RHD149	(Not display)	---	000
RHD150	(Not display)	---	000
RHD151	(Not display)	---	000
RHD152	(Not display)	---	000
RHD153	(Not display)	---	000
RHD154	(Not display)	---	000
RHD155	(Not display)	---	000
RHD156	(Not display)	---	000
RHD157	(Not display)	---	000
RHD158	(Not display)	---	000
RHD159	(Not display)	---	000
RHD160	(Not display)	---	000
RHD161	(Not display)	---	000
RHD162	(Not display)	---	000
RHD163	(Not display)	---	000
RHD164	(Not display)	---	000
RHD165	(Not display)	---	000
RHD166	(Not display)	---	000
RHD167	(Not display)	---	000
RHD168	(Not display)	---	000
RHD169	(Not display)	---	000
RHD170	(Not display)	---	000

4.7 ADJUSTMENT PROCEDURE

4.7.1 SETTING BEFORE ADJUSTMENT

- (1) Check the following settings before adjustment.

Item	setting value	contents
S19	128	R CUT OFF
S21	128	G CUT OFF
S23	128	B CUT OFF

- (2) Take note of initial values in the following table before adjustment. Then, set the values to adjustment setting values shown in the following table. After adjustment procedure, return the values to the initial values you have taken note of (except white balance adjustment).

The values can be set for each input signal (NTSC etc.), but the values are basically the same among the input signals.

Since the values are not adjusted for 525p/720p (because the values change according to the reference adjustment values), you do not have to take note of the values if unnecessary.

Item	Initial value NTSC	Initial value 525p	Initial value 1125i	Initial value 750p	setting value	contents
S13					255	R DRIVE
S15					255	G DRIVE
S17					255	B DRIVE

- (3) Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit:

Setting item	Settings
VIDEO STATUS	STANDARD
BRIGHT / CONTRAST / COLOR / TINT	00
COLOR TEMPERATURE	LOW
DIG. NOISE CLEAR	OFF
COLOR MANEGMENT	STANDARD
NATURAL CINEMA	OFF
TREBLE / BASS / BALANCE	00
BBE	OFF
A.H.S	OFF
A.H.B	OFF
ASPECT	FULL

NOTE:

Follow the order instructed in adjustment procedure.

4.7.2 VIDEO CIRCUIT

Item	Mesuring instrument	Test point	Adjustment part	Description
COMPONENT INPUT BLACK LEVEL	Remote control unit		[8.PP] ADM013: (NO DISPLAY) (G offset)	(1) Input 525i signal that shows brightness gradation with 0% black into a component input terminal. (2) Set "VIDEO STATUS" to STANDARD. (3) Set "ASPECT" to FULL. (4) Select "COLOR TEMPERATURE" to "LOW". (5) Select "1.PICTURE/SOUND" from the SERVICE MODE. (6) Set < F44 > (Picture control) to "001" and < F45 > (Picture control mode sw) to "000" to set Y ADJUST MAX MODE. (7) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection), and < F48 > (Maximum value upon detection) to values as shown in the left table. (8) Press the [MUTING] key to memoirize the set value. (9) Select "8.PP" from the SERVICE MODE. (10) Adjust < ADM013 > (G OFFSET) to set the 0% black part on the upper half of the screen to maximum brightness. (Fig.2) (11) Add reference offset value "0" to the < ADM013 > (G OFFSET) value. (12) Press the [MUTING] key to memoirize the set value. (13) Select "1.PICTURE/SOUND" from the SERVICE MODE. (14) Check the black level. Adjust the black level again if it is not proper. (15) Set < F44 > (Picture control) to "001" to cancel Y ADJUST MAX MODE. (16) Press the [MUTING] key to memoirize the set value. (17) Input 1125i signal. (18) Repeat steps (5) to (15) above. (19) Press the [MUTING] key to memoirize the set value.
	Signal generator		[1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF) F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon detection) F48: LMT TOP (Maximum value upon detection)	

Item No.	Setting value	Adjustment item
F46	090	Output level upon detection
F47	016	Minimum value upon detection
F48	016	Maximum value upon detection

Adjust the 0% black to maximum brightness

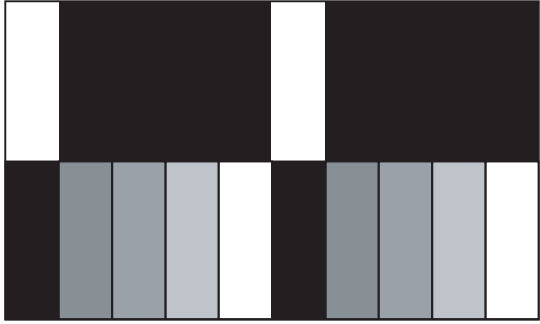


Fig.2

Item	Mesuring instrument	Test point	Adjustment part	Description
COMPONENT INPUT A-D CONVERTER GAIN	Remote control unit		[8.PP] ADM010: (NO DISPLAY) (G GAIN)	(1) Input 525i 100% all-white signal into a component input terminal. (2) Set "VIDEO STATUS" to STANDARD. (3) Set "ASPECT" to FULL. (4) Select "COLOR TEMPERATURE" to "LOW". (5) Select "1.PICTURE/SOUND" from the SERVICE MODE. (6) Set < F44 > (Picture control) to "001" and < F45 > (Picture control mode sw) to "000" to set Y ADJUST MAX MODE. (7) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection), and < F48 > (Maximum value upon detection) to values as shown in the left table. (8) Press the [MUTING] key to memoirize the set value. (9) Select "8.PP" from the SERVICE MODE. (10) Adjust < ADM010 > (G GAIN) to set the upper half of the screen to maximum brightness. (Fig.3) (11) Press the [MUTING] key to memoirize the set value. (12) Check the black level. Perform the "BLACK LEVEL Adjustment" again if the adjusted value is not proper. (13) Select "1.PICTURE/SOUND" from the SERVICE MODE. (14) Set < F44 > (Picture control) to "000" to cancel Y ADJUST MAX MODE. (15) Press the [MUTING] key to memoirize the set value. (16) Input 1125i signal. (17) Repeat steps (5) to (14) above. (18) Press the [MUTING] key to memoirize the set value.
	Signal generator		[1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF) F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon Detection) F48: LMT TOP (Maximum value upon detection)	

Item No.	Setting value	Adjustment item
F46	090	Output level upon detection
F47	220	Minimum value upon detection
F48	220	Maximum value upon detection

Adjust this part to maximum brightness.

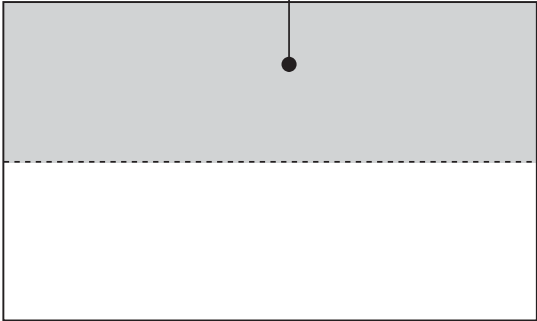


Fig.3

Item	Mesuring instrument	Test point	Adjustment part	Description
COMPONENT INPUT A-D CONVERTER OFFSET	Remote control unit		[8.PP] ADM012: (NO DISPLAY) (R OFFSET) ADM014: (NO DISPLAY) (B OFFSET)	(1) Input 525i component 30% all-white signal into a component input terminal. (2) Set "VIDEO STATUS" to STANDARD. (3) Set "ASPECT" to FULL. (4) Select "COLOR TEMPERATURE" to "LOW". (5) Select "1.PICTURE/SOUND" from the SERVICE MODE. (6) Set < F44 > (Picture control) to "001" and < F45 > (Picture control mode sw) to "003" to set the chrominance adjustment zero mode. (7) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection), and < F48 > (Maximum value upon detection) to values as shown in the left table. (8) Press the [MUTING] key to memoirize the set value. (9) Select "8.PP" from the SERVICE MODE. (10) Change the value of < ADM014 > (B OFFSET) from the initial value in the range of ± 5 to set the upper half of the screen magenta. (11) Adjust < ADM012 > (R OFFSET) to change the upper half of the screen from magenta to blue. (12) Take a note of the value of < ADM012 > (R OFFSET) adjusted in (11). (13) Change the value of < ADM012 > (R OFFSET) from the value that you have taken note of in the range of ± 5 to set the upper half of the screen magenta. (14) Adjust < ADM014 > (B OFFSET) to change the upper half of the screen from magenta to red. (15) Return the value of < ADM012 > (R OFFSET) to the value that you have taken note of in (12). (16) Press the [MUTING] key to memoirize the set value. (17) Set the SPLIT screen mode. (18) Input monochrome signal such as cross hatch both to the right and the left screen. (19) Set < ADM012 > (R OFFSET) and < ADM014 > (B OFFSET) to the same values as in single-screen mode. (20) Press the [MUTING] key to memoirize the set value. (21) Set < F44 > (Picture control) to "000" to cancel the chrominance adjustment zero mode. (22) Input 1125i 30% all-white signal. (23) Repeat steps (5) to (21) above. (24) Press the [MUTING] key to memoirize the set value.
	Signal generator		[1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF) F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon detection) F48: LMT TOP (Maximum value upon detection)	

Item No.	Setting value	Adjustment item
F46	090	Output level upon detection
F47	000	Minimum value upon detection
F48	000	Maximum value upon detection

Change the color in this part.

Fig.4

Item	Mesuring instrument	Test point	Adjustment part	Description
COMPOSITE INPUT BLACK LEVEL	Remote control unit Signal generator		<p>[2. YC SEP] YCM131: (NO DISPLAY) (BRIGHTNESS)</p> <p>[1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF)</p> <p>F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon detection) F48: LMT TOP (Maximum value upon detection)</p>	<p>(1) Input NTSC signal that shows brightness gradation with 0% black.</p> <p>(2) Set "VIDEO STATUS" to STANDARD.</p> <p>(3) Set "ASPECT" to FULL.</p> <p>(4) Select "COLOR TEMPERATURE" to "LOW".</p> <p>(5) Select "1.PICTURE/SOUND" from the SERVICE MODE.</p> <p>(6) Set < F44 > (Picture control) to "001" and < F45 > (Picture control mode sw) to "000" to set Y ADJUST MAX MODE.</p> <p>(7) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection), and < F48 > (Maximum value upon detection) to values as shown in the left table.</p> <p>(8) Select "2. YC SEP" from the SERVICE MODE.</p> <p>(9) Adjust < YCM131 > (BRIGHTNESS) so that 0% part of gradation is the brightest. (Fig. 6)</p> <p>(10) Press the [MUTING] key to memoirize the set value.</p> <p>(11) Select "1.PICTURE/SOUND" from the SERVICE MODE.</p> <p>(12) Set < F44 > (Picture control) to "000" to cancel Y ADJUST MAX MODE.</p> <p>(13) Press the [MUTING] key to memoirize the set value.</p>

Item No.	Setting value	Adjustment item
F46	090	Output level upon detection
F47	016	Minimum value upon detection
F48	016	Maximum value upon detection

Adjust so that 0% black is the brightest.

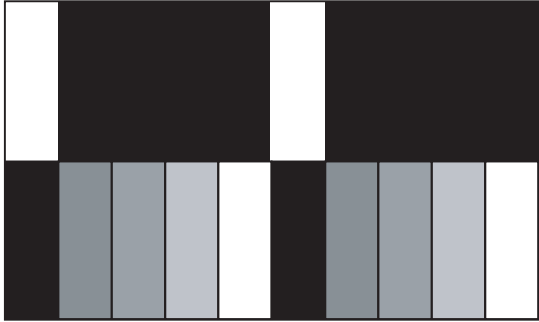
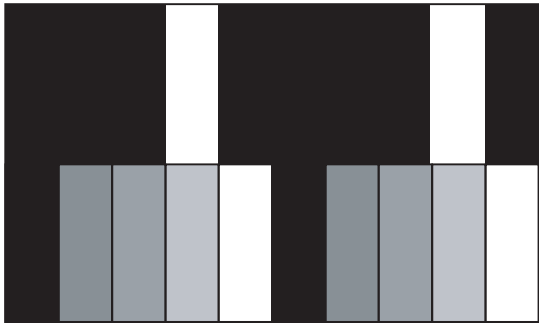


Fig.5

Item	Mesuring instrument	Test point	Adjustment part	Description
COMPOSITE INPUT A-D CONVERTER OFFSET	Remote control unit		[2. YC SEP] YCM132: (NO DISPLAY) (CONTRAST)	(1) Input a signal that shows brightness gradation with 75% white. (2) Set "VIDEO STATUS" to STANDARD. (3) Set "ASPECT" to FULL. (4) Select "COLOR TEMPERATURE" to "LOW". (5) Select "1.PICTURE/SOUND" from the SERVICE MODE. (6) Set < F44 > (Picture control) to "001" and <F45 > (Picture control mode sw) to "000" to set Y ADJUST MAX MODE. (7) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection), and < F48 > (Maximum value upon detection) to values as shown in the left table. (8) Select "2.YC SEP" from the SERVICE MODE. (9) Adjust < YCM132 > (CONTRAST) so that the 75% white of gradation is white. (Fig.7) (10) Press the [MUTING] key to memoirize the set value. (11) Check the black level adjusted in composite input black level adjustment. Perform the "Composite input black level Adjustment" again if the adjusted value is not proper. (12) Perform (9) and (10) if you readjust the black level in (11). (13) Select "1.PICTURE/SOUND" from the SERVICE MODE. (14) Set < F44 > (Picture control) to "000" to cancel Y ADJUST MAX MODE. (15) Press the [MUTING] key to memoirize the set value.
	Signal generator		[1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF) F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon detection) F48: LMT TOP (Maximum value upon detection)	

Item No.	Setting value	Adjustment item
F46	090	Output level upon detection
F47	165	Minimum value upon detection
F48	165	Maximum value upon detection

Adjust so that 75%" white is the brightest.



Adjust so that 75%" white is the brightest.

Fig.6

Item	Mesuring instrument	Test point	Adjustment part	Description
SUB-SCREEN BLACK LEVEL	Remote control unit		[8. PP] ADM013: (NO DISPLAY) (G offset)	(1) Input NTSC signal that shows brightness gradation with 0% black into both the right and the left screen. (2) Set "VIDEO STATUS" to STANDARD. (3) Set "ASPECT" to FULL. (4) Select "COLOR TEMPERATURE" to "LOW". (5) Set SPLIT screen mode. (6) Select "1.PICTURE/SOUND" from the SERVICE MODE for the right screen. (7) Set < F44 > (Picture control) to "001" and <F45 > (Picture control mode sw) to "000" to set Y ADJUST MAX MODE. (8) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection), and < F48 > (Maximum value upon detection) to values as shown in the left table. (9) Press the [MUTING] key to memoirize the set value. (10) Select "8.PP" from the SERVICE MODE. (11) Adjust < ADM013 > (G OFFSET) to set the 0% black part on the upper right half of the screen to the same color as on the upper left half of the screen. (Fig.9) (12) Press the [MUTING] key to memoirize the set value. (13) Select "1.PICTURE/SOUND" from the SERVICE MODE. (14) Set < F44 > (Picture control) to "000" to cancel Y ADJUST MAX MODE (15) Press the [MUTING] key to memoirize the set value.
	Signal generator		[1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF) F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon detection) F48: LMT TOP (Maximum value upon detection)	

Item No.	Setting value	Adjustment item
F46	090	Output level upon detection
F47	016	Minimum value upon detection
F48	016	Maximum value upon detection

SPLIT screen mode

Set the 0% black part in this part to the same black color as on the left screen.

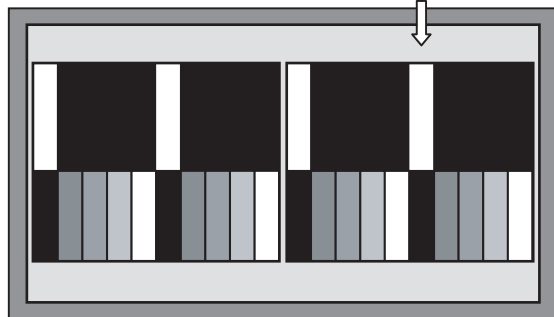


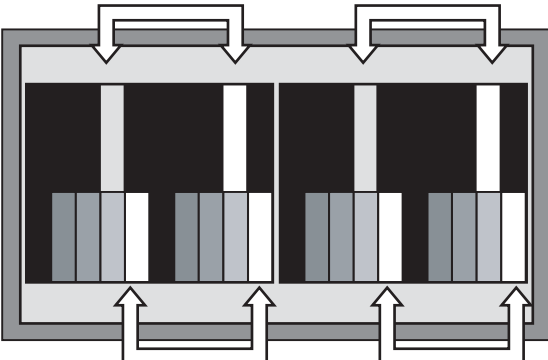
Fig.7

Item	Mesuring instrument	Test point	Adjustment part	Description
SUB-SCREEN A-D CONVERTER GAIN	Remote control unit		[8. PP] ADM010: (NO DISPLAY) (G GAIN)	(1) Input NTSC signal that shows brightness gradation with 75% white into both the right and the left screen. (2) Set "VIDEO STATUS" to STANDARD. (3) Set "ASPECT" to FULL. (4) Select "COLOR TEMPERATURE" to "LOW". (5) Set SPLIT screen mode. (6) Select "1.PICTURE/SOUND" from the SERVICE MODE for the right screen. (7) Set < F44 > (Picture control) to "001" and < F45 > (Picture control mode sw) to "000" to set Y ADJUST MAX mode. (8) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection), and < F48 > (Maximum value upon detection) to values as shown in the left table. (9) Press the [MUTING] key to memoirize the set value. (10) Select "8.PP" from the SERVICE MODE. (11) Adjust < ADM010 > (G OFFSET) so that the 75% white part on the upper right part of the screen is white. (Fig.8) (12) Press the [MUTING] key to memoirize the set value. (13) Check the black level adjusted in "SPLIT screen BLACK LEVEL adjustment". Adjust the black level of SUB SCREEN again if it is not proper. (14) Select "1.PICTURE/SOUND" from the SERVICE MODE. (15) Set < F44 > (Picture control) to "000" to cancel Y ADJUST MAX MODE. (16) Press the [MUTING] key to memoirize the set value.
	Signal generator		[1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF) F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon detection) F48: LMT TOP (Maximum value upon detection)	

Item No.	Setting value	Adjustment item
F46	090	Output level upon detection
F47	168	Minimum value upon detection
F48	168	Maximum value upon detection

SPLIT screen mode

Adjust so that 75%" white is the brightest.



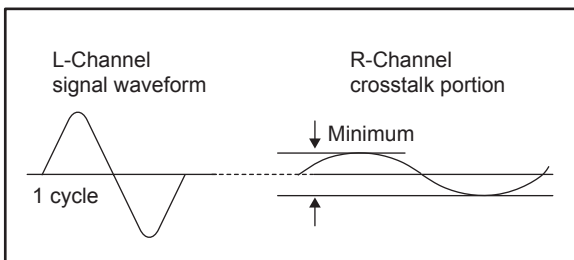
Adjust so that 75%" white is the brightest.

Fig.8

Item	Mesuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (HIGHLIGHT)	Remote control unit Signal generator		[1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF)	(1) Input NTSC 75% all-white signal. (2) Set "VIDEO STATUS" to STANDARD. (3) Set "ASPECT" to FULL. (4) Select "COLOR TEMPERATURE" to "LOW". (5) Select "1.PICTURE/SOUND" from the SERVICE MODE. (6) Fix one of < S13 > (R DRIVE), < S15 > (G DRIVE), or < S17 > (B DRIVE). Lower the two that are not fixed so that the all-white screen is equally white throughout. Set one or more of < S13 >, < S15 >, and < S17 > to "255". (7) Check that white balance is properly tracked from lowlight to highlight. (8) Press the [MUTING] key to memoirze the set value. (9) Input 1125i 75% all-white signal. (10) Repeat steps (5) to (8) above. (11) Input 525i all-white signal. (12) Repeat steps (5) to (8) above.

4.7.3 MTS CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
MTS INPUT LEVEL	MPX Signal generator Remote control unit		[1.PICTURE/SOUND] A18: IN LEVEL	(1) Input the color bar signal (400Hz). (2) Select 1.PICTURE/SOUND from the SERVICE MODE. (3) Verify that the < A18 > (IN LEVEL) is set at its initial setting value. (4) Press the [MUTING] key to memorize the set value.
MTS SEPARATION	TV audio multiplex signal generator Oscilloscope Remote control unit	L OUT R OUT	[1.PICTURE/SOUND] A19: LOW SEP A20: HI SEP	(1) Input the stereo L signal (300Hz) from the TV audio multiplex signal generator to the antenna terminal. (2) Connect an oscilloscope to L OUT pin of the MONITOR OUT, and display one cycle portion of the 300Hz signal. (3) Change the connection of the oscilloscope to R OUT pin of the MONITOR OUT, and enlarge the voltage axis. (4) Select 1.PICTURE/SOUND from the SERVICE MODE. (5) Set the initial setting value of the < A19 > (LOW SEP). (6) Adjust the < A19 > so that the stroke element of the 300Hz signal will become minimum. (7) Change the signal to 3kHz, and similarly adjust the < A20 > (HI SEP). (8) Press the [MUTING] key to memorize the set value.



SECTION 5 TROUBLESHOOTING

5.1 SELF-DIAGNOSIS FEATURE

5.1.1 OUTLINE

This unit comes with the "Self-diagnosis" feature, which checks the operational state of the circuit and displays/saves it during failure. Diagnosis is performed when power is turned on, and information input to the main microcomputer is monitored at all time. Diagnosis is displayed in 2 ways via screen display and LED flashes. Failure detection is based on input state of I²C bus and the various control lines connected to the main microcomputer.

5.1.2 HOW TO ENTER THE SELF-DIAGNOSIS DISPLAY MODE

Before entering the Self-diagnosis Display mode, confirm that the setting of TV / CATV SW of the REMOTE CONTROL UNIT is at the "TV" side and the setting of VCR / DVD SW is at the "VCR" side. If the switches have not been properly set, you cannot enter the Self-diagnosis Display mode.

- (1) Press the [SLEEP TIMER] key and set it to 30 minutes.
- (2) Press the [VIDEO STATUS] key and [DISPLY] key simultaneously, then enter the TEST MODE.
- (3) Press the [4] key (Self-diagnosis Display mode) before the service mode screen disappears.
- (4) Press the [MTS] key to enter Page 2 of the Self-diagnosis Display mode.

*Use the [MTS] key to toggle between Page 1 and Page 2.

NOTE:

The remote control unit attached to this set does not contain the [MTS] key. To perform the procedure (4), use a remote control unit that contains the [MTS] key.

5.1.3 HOW TO EXIT THE SELF-DIAGNOSIS DISPLAY MODE

To Save Failure History:

Turn off the power by unplugging the AC power cord plug when in the self-diagnosis display mode.

To Clear (Reset) Failure History:

Turn off the power by pressing the [POWER] key on the remote control unit when in the self-diagnosis display mode.

5.1.4 FAILURE HISTORY

Failure history can be counted up to 9 times for each item. When the number exceeds 9, display will remain as 9. Failure history will be stored in the memory unless it has been deleted.

NOTE:

Only SYNC (with/without sync signals) will be neither counted nor stored.

5.1.5 POINTS TO NOTE WHEN USING THE SELF-DIAGNOSIS FEATURE

In addition to circuit failures (abnormal operation), the following cases may also be diagnosed as "Abnormal" and displayed and counted as "NG".

- (1) Temporary defective transmissions across circuits due to pulse interruptions
- (2) Misalignment in the on/off timing of power for I²C bus (VCC) when turning on/off the main power.

Diagnosis may be impeded if a large number of items are displayed as "NG". As such, start self-diagnosis check only after 3 seconds in the case of receivers and 5 seconds in the case of panels upon turning on the power. If recurrences are expected, ensure to clear (reset) the failure history and record the new diagnosis results.

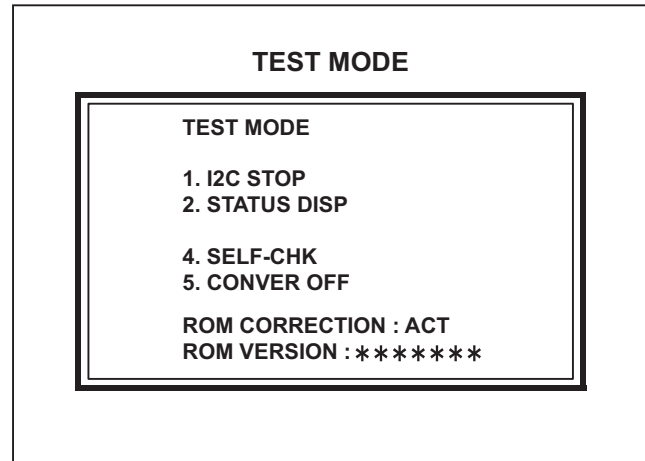


Fig.1

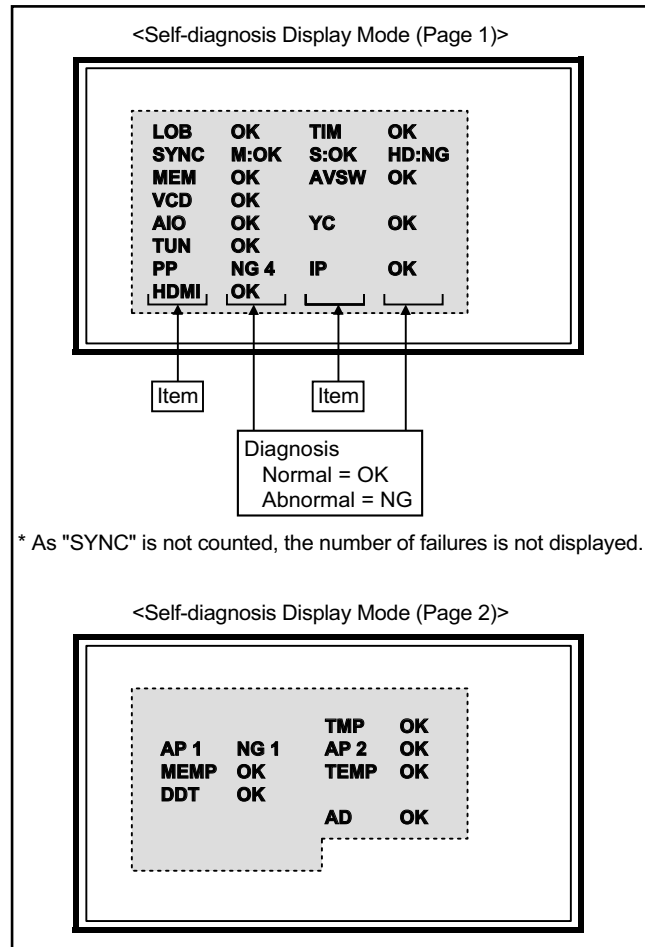


Fig.2

5.1.6 DETAILS

Self-diagnosis is performed for the following items:

• PAGE 1

Item	Display	Description of detection	Diagnosis signal (line)	Means of detection
LOW B LINE SHORT PROTECTION	LOB	Was Low B line short protector activated? No. of times short circuit protection is triggered [POWER PWB] (3.3V / LCD 5V / 9V / 13V / AVCC)	PROTECTOR	Detection starts 3 seconds upon power on Turns off power if NG is detected within 200ms
TIMER	TIM	Did power supply frequency fluctuated from: 50Hz → 60Hz 60Hz → 50Hz Number of counts [POWER PWB (PC9001)]	AC	Regularly detects power supply frequency by AC pulse counts and monitors frequency fluctuations other than instances immediately after reset
WITH / WITHOUT SYNC SIGNALS	SYNC	Are there synchronized signals? HD: Color difference synchronized signals M: Main Synchronized signals S: Sub-synchronized signals [IC1211]	SDA	Checks whether there are synchronized signal in video signal
MEMORY	MEM	Is ACK returned during I ² C transmission? [IC1703]	SDA	Monitors upon every I ² C transmission and counts if ACK is not returned
AV SWITCH	AVSW	Same as above [IC1301]	SDA	Same as above
VIDEO CHROMA	VCD	Same as above [IC7301]	SDA	Same as above
AUDIO PROCESSING	AIO	Same as above [IC6501]	SDA	Same as above
3D Y/C SEPARATION	YC	Same as above [IC3001]	SDA	Same as above
RF TUNER	TUN	Same as above [TU1101]	SDA	Same as above
MULTI-SCREEN PROCESSING	PP	Is ACK returned during I ² C transmission?	SDA	Monitors upon every I ² C transmission and counts if ACK is not returned
DIST PROCESSING	IP	Same as above [IC201]	SDA	Same as above
HDMI	HDMI	Not used (Only display)	----	----

• PAGE 2

Item	Display	Description of detection	Diagnosis signal (line)	Means of detection
DEFECTIVE AUDIO OUTPUT PART	AP1	Detects short and abnormal temperature in audio circuit. [IC6641]	SDA	Detection starts 3 seconds upon power on. Performs detection every 16ms. If NG lasts for 300ms, audio output part is defective. Controls [/AMP_RST] to [L]→(0.5S)→[H]. Monitors again, and turns off power if the defect is not corrected within 3 seconds.
	AP2	Fault load of audio output part.. [IC6641]		
DEVICE DRIVE COLOR MANAGEMENT	DDT	Is ACK returned during I ² C transmission? [IC401]	SDA	Monitors upon every I ² C transmission and counts if ACK is not returned.
A-D CONVERTER	AD	Is ACK returned during I ² C transmission? [IC001]	SDA	Monitors upon every I ² C transmission and counts if ACK is not returned.

5.1.7 DISPLAY METHOD WHEN RASTER IS NOT AVAILABLE

When raster is not displayed due to failure of the set, the POWER LED light will flash to indicate the failure mode. Trigger for forced shutdown of power is stored and displayed.

Trigger of error	Display	LED flash cycle of display unit
LOW B LINE SHORT PROTECTION	LOB	Blue every 1.0 sec
DEFECTIVE AUDIO OUTPUT PART	AP1	Blue every 0.1 sec
	AP2	Blue every 0.5 sec

Details on Operation

Power of TV will be turned off when NG is detected for LOW B short Protection". "POWER LED" will start flashing immediately after power is turned off and power of tuner and panel cannot be turned on upon shutdown until the AC plugs are disconnected once and reconnected.



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AV & MULTIMEDIA COMPANY VIDEO DISPLAY CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.YA089)



Printed in Japan
WPC

PARTS LIST

CAUTION

- The parts identified by the Δ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
		CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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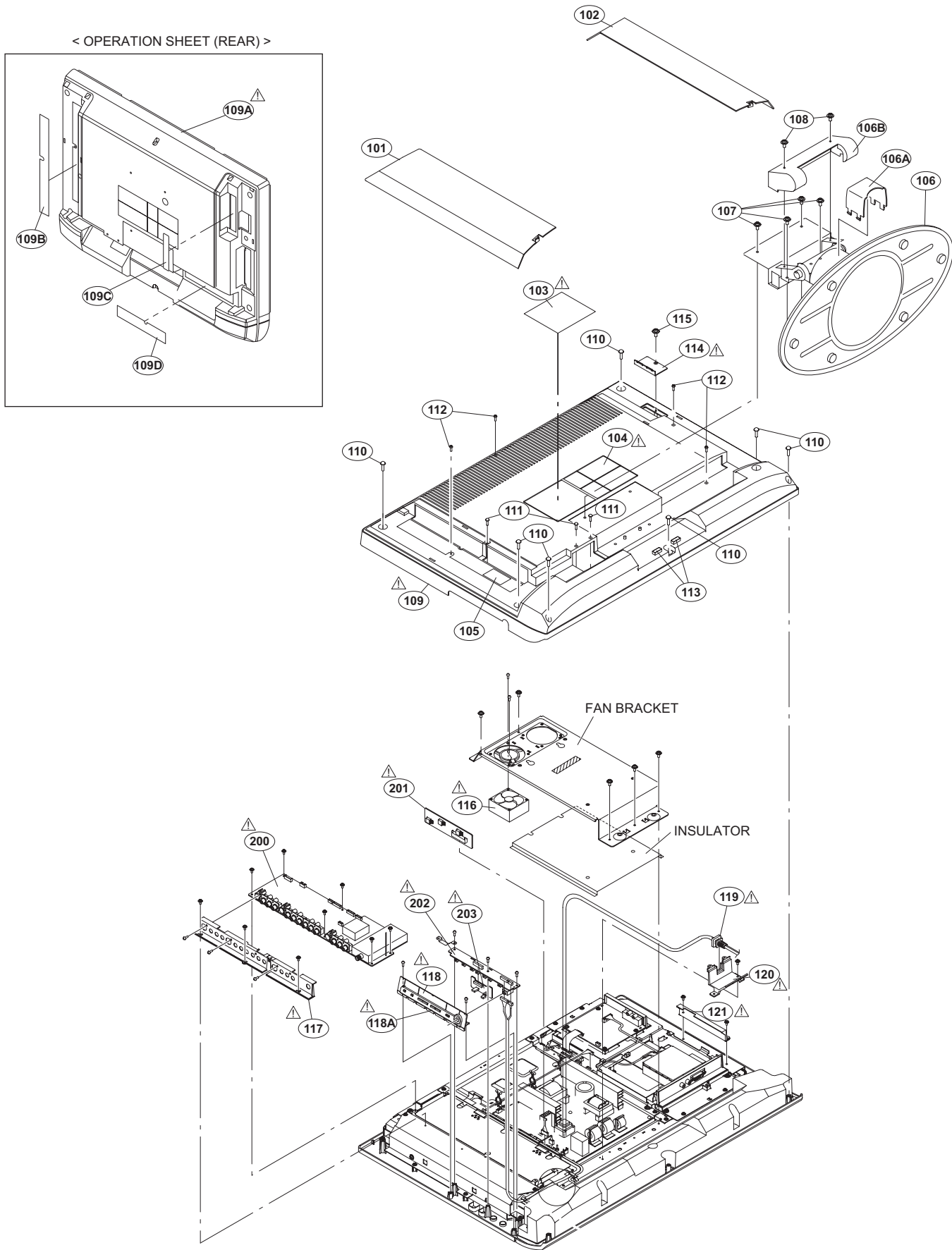
USING P.W. BOARD & REMOTE CONTROL UNIT

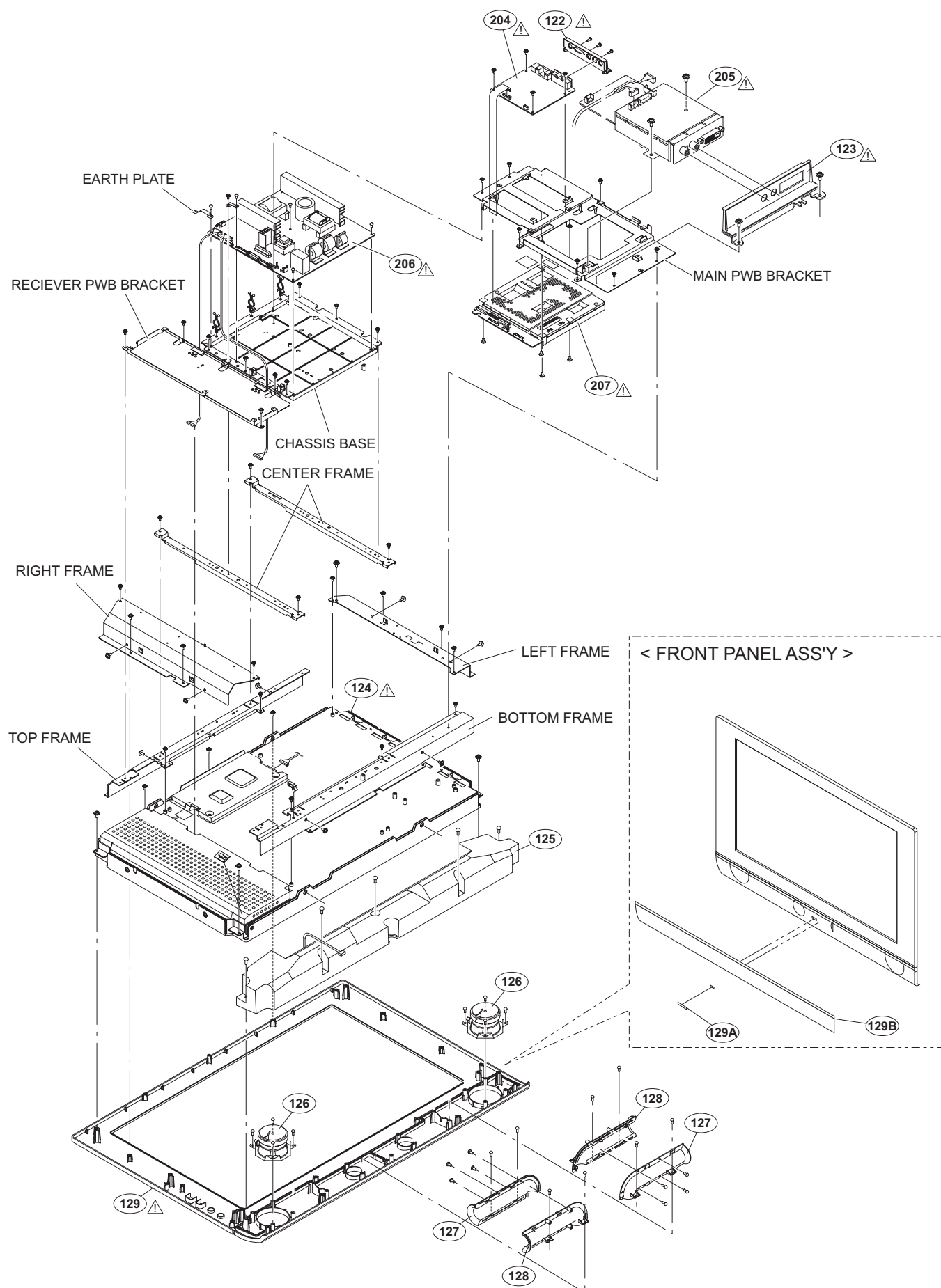
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REGULATOR P.W.B	LCA90150-03D(SSB-9186A)
RECEIVER P.W.B	LCA90182-01B(SSB-0J086A)
FRONT SENSOR P.W.B	LCA90155-03B(SSB-0L286A)
FRONT CONTROL P.W.B	LCA90154-03D(SSB-0L386A)
MI-COM & DIST MODULE P.W.B	LCA10291-06A(SSB-0D098A)
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REMOTE CONTROL UNIT	RM-C13G-1H

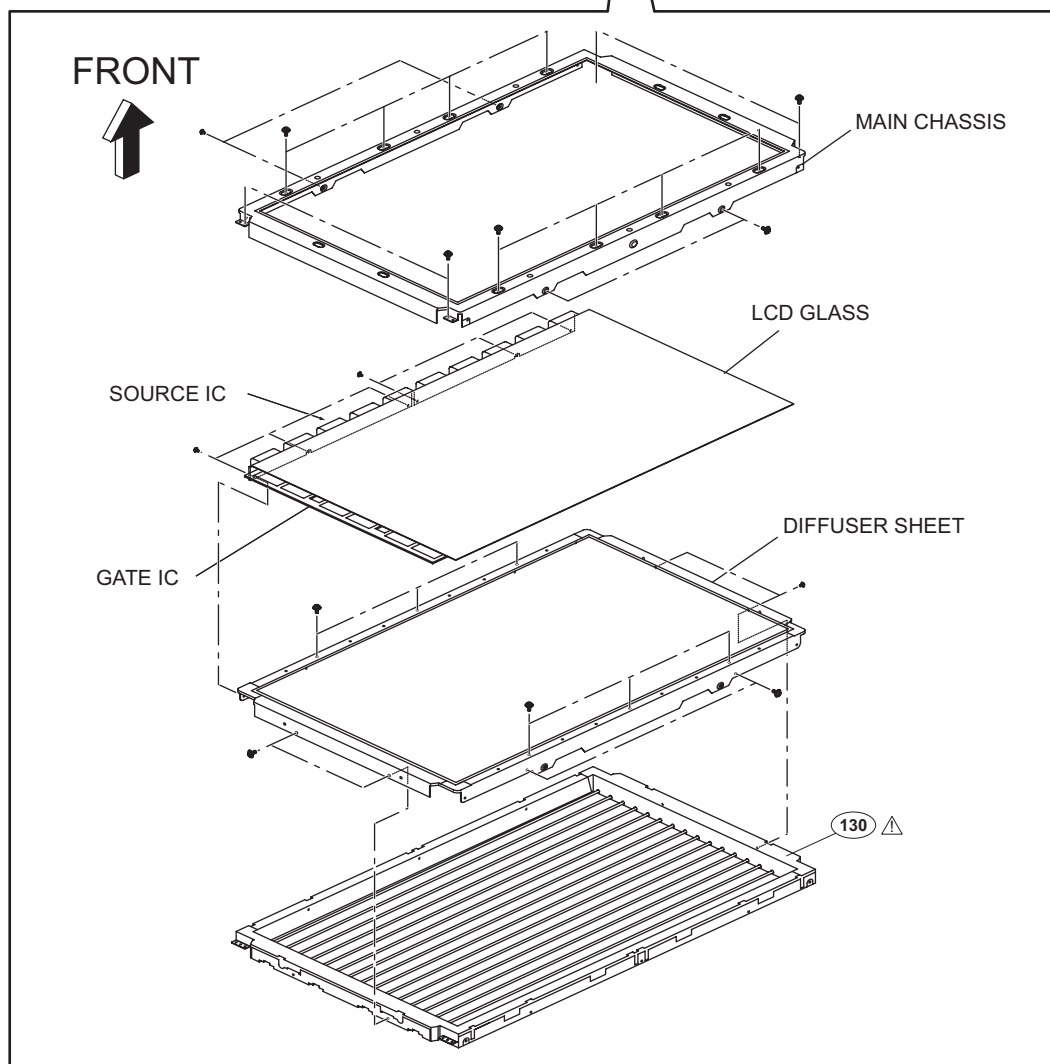
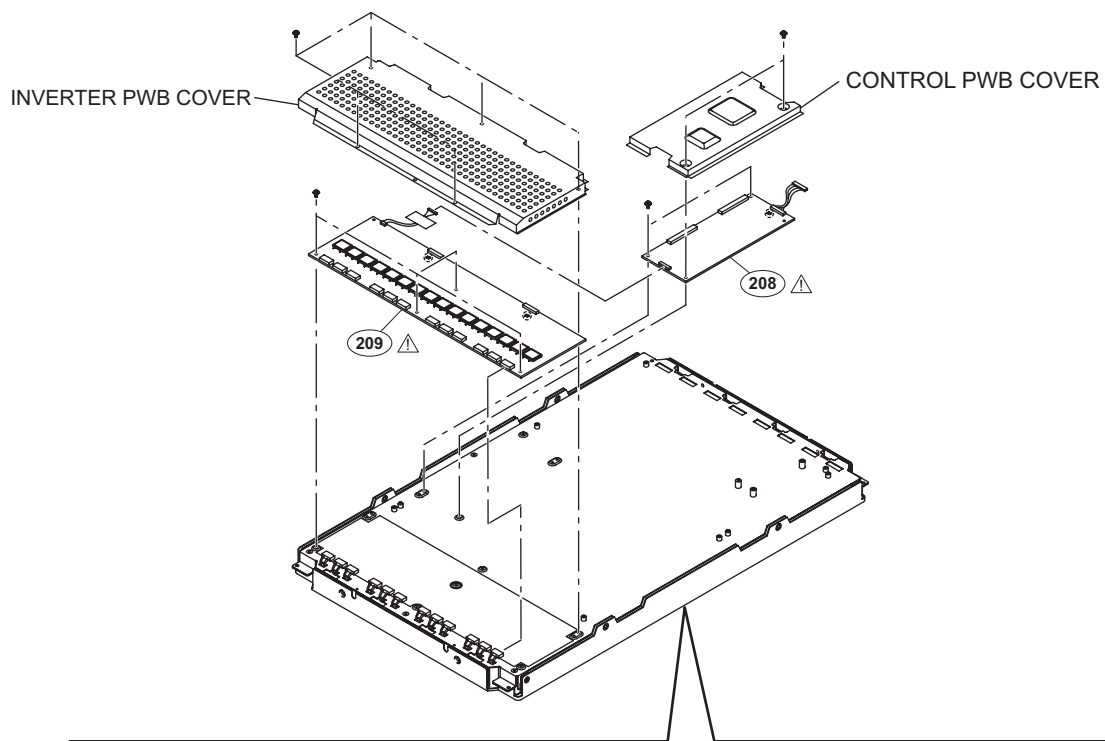
EXPLODED VIEW PARTS LIST

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	101	LC11627-001B-HK	JACK COVER R		
	102	LC11628-001B-HK	JACK COVER L		
△	103	LC21594-001A-OL	RATING LABEL		
△	104	LC41424-002A	HDCP WARNING		
	105	LC41749-001A	CAUTION LABEL		
	106	LC41609-001C	STAND ASSY	Inc.No. 106A-106B	
	106A	N0354	STAND COVER		
	106B	N0355	CORD HOLDER		
	107	QYSPSPD5012M	SCREW	M5 x 12mm(x4)	
	108	QYSPSPD3008N	SCREW	3mm x 8mm(x2)	
△	109	LC11656-002E	REAR COVER ASSY	Inc.No. 109A-109D	
△	109A	LC11626-002C	REAR COVER		
	109B	LC32367-002A	OPERATION SHEET		
	109C	LC32368-002A	OPERATION SHEET		
	109D	LC32370-004A	OPERATION SHEET		
	110	QYSBSFG4016M	TAP SCREW	4.0mm x 16mm(x7)	
	111	QYSSSF3010M	TAP SCREW	M3 x 10mm(x3)	
	112	QYSPSPD3008M	SCREW	3mm x 8mm(x4)	
	113	LC30599-054A	STICK SHEET	(x2)	
△	114	LC32366-001A-HK	SERVICE COVER		
	115	QYSBSF3012M	TAP SCREW	3.0mm x 12mm	
△	116	QAR0295-001	COOLING FAN		
△	117	LC21334-001D	TERMINAL BASE		
△	118	LC32351-002A	CONT KNOB ASSY	Inc.No. 118A	
△	118A	LC21342-002A	KNOB BASE		
△	119	QMPR610-170-JC	POWER CORD	1.7m BLACK	
△	120	LC21348-001D-HK	POWER CORD HOLDER		
△	121	LC21349-002A-HK	CARD BASE		
△	122	LC32346-002A	JACK BASE		
△	123	LC32348-004A	DIGITAL INPUT BASE		
△	124	QLD0282-001	LCD PANEL UNIT		
	125	LC11633-001B	SPEAKER BOX		
	126	QAS0142-001	SPEAKER	SP01/SP02(x2)	
	127	LC21339-001A-HK	DUCT BASE	(x2)	
	128	LC21340-001B-HK	DUCT COVER	(x2)	
△	129	LC11623-002B	F PANEL ASSY	Inc.No. 129A-129B	
	129A	CM48006-010-C	JVC MARK		
	129B	LC21325-001D	PUNCHING SHEET		
△	130	LJ96-01100A	BACKLIGHT UNIT		
△	200	LCA90182-01B	RECEIVER PWB		
△	201	LCA90150-03D	REGULATOR PWB		
△	202	LCA90154-03D	FRONT CONTROL PWB		
△	203	LCA90155-03B	FRONT SENSOR PWB		
△	204	LCA90152-03C	VIDEO PWB		
△	205	LCA10352-25A	DIGITAL INPUT MODULE PWB		
△	206	LCA90149-03F	POWER PWB		
△	207	LCA10291-06A	MI-COM & DIST MODULE PWB		
△	208	CONTROL-26	CONTROL PWB		
△	209	INVERTER-26	INVERTER PWB		

EXPLODED VIEW







PRINTED WIRING BOARD PARTS LIST

VIDEO P.W. BOARD ASS'Y (LCA90152-03C)(SSB-1086A)

△Ref No.	Part No.	Part Name	Description Local
IC1211	TA1318N	IC	
IC1212	SN74AHC2G08T-X	IC	
IC1301	AN15852A	IC	
IC3001	MN82832	IC	
IC3002	R1170H331B-X	IC	
Q1232	2SA1530A/QR/-X	TRANSISTOR	
Q1301	2SC3837K/NP/-X	TRANSISTOR	
Q1302	2SC3837K/NP/-X	TRANSISTOR	
Q1303	2SC3837K/NP/-X	TRANSISTOR	
Q3001	2SC3928A/QR/-X	TRANSISTOR	
Q3002	2SC3928A/QR/-X	TRANSISTOR	
Q3003	2SA1530A/QR/-X	TRANSISTOR	
Q3004	2SC3928A/QR/-X	TRANSISTOR	
Q3005	2SC3928A/QR/-X	TRANSISTOR	
Q3006	2SA1530A/QR/-X	TRANSISTOR	
Q3007	2SA1530A/QR/-X	TRANSISTOR	
Q3501	2SA1530A/QR/-X	TRANSISTOR	
Q3502	2SC3928A/QR/-X	TRANSISTOR	
Q3505	2SA1530A/QR/-X	TRANSISTOR	
Q3506	2SC3928A/QR/-X	TRANSISTOR	
Q3509	2SA1530A/QR/-X	TRANSISTOR	
Q3510	2SC3928A/QR/-X	TRANSISTOR	
D2402	MA8100/M/-X	Z DIODE	
D2404	MA8100/M/-X	Z DIODE	
D2405	MA8100/M/-X	Z DIODE	
C1213	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1214	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C1215	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J
C1216	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C1218	NCB21CK-105X	C CAPACITOR	1uF 16V K
C1219	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C1233	NDC31HJ-180X	C CAPACITOR	18pF 50V J
C1301	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1302	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1303	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C1304	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1305	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1306	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1307	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1311	NCB21CK-105X	C CAPACITOR	1uF 16V K
C1312	NCB21CK-105X	C CAPACITOR	1uF 16V K
C1313	NCB21CK-105X	C CAPACITOR	1uF 16V K
C1314	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1315	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1322	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1323	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1324	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1325	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1326	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1327	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1328	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1332	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1333	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1342	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1343	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1354	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1355	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1356	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1361	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1362	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1363	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1364	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1365	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1372	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1382	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1392	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C2321	NCB21CK-105X	C CAPACITOR	1uF 16V K
C2322	NCB21CK-105X	C CAPACITOR	1uF 16V K
C2323	NCB21CK-105X	C CAPACITOR	1uF 16V K
C2341	NCB21CK-105X	C CAPACITOR	1uF 16V K
C2342	NCB21CK-105X	C CAPACITOR	1uF 16V K
C2343	NCB21CK-105X	C CAPACITOR	1uF 16V K
C3001	QENC1AM-336Z	BP E CAPACITOR	33uF 10V M
C3002	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C3003	NDC31HJ-121X	C CAPACITOR	120pF 50V J
C3004	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C3005	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z

△Ref No.	Part No.	Part Name	Description Local
C3006	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3007	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C3008	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C3009	NDC31HJ-121X	C CAPACITOR	120pF 50V J
C3010	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C3011	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C3012	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3013	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3014	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C3015	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3016	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3017	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C3018	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3019	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3020	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3021	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3022	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3023	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3024	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3025	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C3026	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3027	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J
C3028	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J
C3029	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3030	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3031	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3032	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C3033	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C3034	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C3035	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C3036	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3037	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3038	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3039	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3041	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C3042	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3044	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3045	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3046	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3047	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C3048	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3049	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3050	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3051	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3052	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3053	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3054	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3055	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3056	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3057	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C3058	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3059	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C3060	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3061	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C3062	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3063	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C3064	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3065	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C3066	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3068	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3069	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C3070	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3071	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C3072	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3073	NCB10JK-106X	C CAPACITOR	10uF 6.3V K
C3074	NDC31HJ-680X	C CAPACITOR	68pF 50V J
C3077	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C3078	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3080	QBTC1CK-106Z	TA E CAPACITOR	10uF 16V K
C3082	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C3086	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C3088	NDC31HJ-100X	C CAPACITOR	10pF 50V J
C3089	NDC31HJ-100X	C CAPACITOR	10pF 50V J
C3090	NDC31HJ-100X	C CAPACITOR	10pF 50V J
C3099	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3100	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3501	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3502	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C3503	NDC31HJ-121X	C CAPACITOR	120pF 50V J
C3504	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C3506	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C3507	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3508	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C3509	NDC31HJ-121X	C CAPACITOR	120pF 50V J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C3510	NDC31HJ-150X	C CAPACITOR	15pF 50V J	R3039	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C3512	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	R3040	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C3513	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R3042	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C3514	NDC31HJ-101X	C CAPACITOR	100pF 50V J	R3043	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3515	NDC31HJ-121X	C CAPACITOR	120pF 50V J	R3044	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3516	NDC31HJ-150X	C CAPACITOR	15pF 50V J	R3045	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C3518	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	R3047	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C3519	QENC1CM-336Z	BP E CAPACITOR	33uF 16V M	R3048	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C3520	QENC1CM-336Z	BP E CAPACITOR	33uF 16V M	R3049	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C3521	QENC1CM-336Z	BP E CAPACITOR	33uF 16V M	R3050	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
				R3051	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R1202	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3052	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R1203	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3053	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R1218	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R3054	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1219	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R3055	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1220	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3056	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R1221	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3057	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R1226	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3058	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1228	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R3059	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1229	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R3060	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R1230	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3061	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1231	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R3062	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1232	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R3063	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1234	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R3064	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1236	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R3065	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1301	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3066	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1302	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3071	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1321	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R3072	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1322	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R3073	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1323	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R3074	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1351	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3075	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1352	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3076	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1353	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3077	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1372	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3078	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1374	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R3079	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1375	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3080	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1376	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3081	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1377	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3082	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1382	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1384	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R3502	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1385	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3503	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R1386	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3504	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R1387	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3505	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1392	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3507	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1394	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R3508	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1395	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3509	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1396	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1397	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3516	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R2322	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R3517	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R2325	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R3518	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2328	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R3519	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R3001	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R3520	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R3002	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R3521	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3523	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3004	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R3525	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R3005	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R3532	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R3006	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R3533	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3007	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R3534	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3535	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R3009	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D	R3536	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R3010	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R3537	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3539	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3012	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R3541	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R3013	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R3548	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R3014	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3549	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3015	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R3550	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3016	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R3551	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3017	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R3552	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3018	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R3553	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3554	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3020	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D	R3555	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3021	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	RA3001	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
R3022	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA3002	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
R3023	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	RA3003	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
R3024	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	RA3004	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
R3025	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
R3026	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	L1211	QQL25CK-100Z	COIL	10uH K
R3027	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	L1301	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
R3028	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	L1302	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
R3029	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	L3001	NQL092K-6R8X	P COIL	6.8uH K
R3030	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	L3002	NQL092K-6R8X	P COIL	6.8uH K
R3031	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L3003	NQR0413-003X	FERRITE BEADS	
R3032	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L3004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3033	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L3005	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R3035	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L3006	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R3036	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L3007	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R3037	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L3501	NQL092K-6R8X	P COIL	6.8uH K

△Ref No.	Part No.	Part Name	Description Local
L3502	NQL092K-6R8X	P COIL	6.8uH K
L3503	NQL092K-6R8X	P COIL	6.8uH K
CN100H	QGF0508C1-30W	CONNECTOR	FFC/FPC (1-30)
CN100N	QGA1501C2-04V	CONNECTOR	W-B (1-4)
CN10AQ	QGA2001C2-09V	CONNECTOR	W-B (1-9)
J2121	QNN0584-001	PIN JACK	COMPONENT IN
K3001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
LC3001	NQR0450-002X	EMI FILTER	22pF 50V M
LC3002	NQR0450-002X	EMI FILTER	22pF 50V M
LC3003	NQR0415-005X	EMI FILTER	0.1uF 25V M
LC3004	NQR0450-004X	EMI FILTER	100pF 50V M
LC3005	NQR0450-002X	EMI FILTER	22pF 50V M
LC3006	NQR0450-004X	EMI FILTER	100pF 50V M
LC3007	NQR0450-002X	EMI FILTER	22pF 50V M
LC3008	NQR0450-002X	EMI FILTER	22pF 50V M
LC3501	NQR0450-004X	EMI FILTER	100pF 50V M
LC3502	NQR0450-004X	EMI FILTER	100pF 50V M
LC3503	NQR0450-004X	EMI FILTER	100pF 50V M
SL1211	CSB503F30	C RESONATOR	
X3001	NAX0570-001X	CRYSTAL	27.000MHz

POWER P.W. BOARD ASS'Y (LCA90149-03F)(SSB-9086A)

△Ref No.	Part No.	Part Name	Description Local
△IC9211	MC33262D-X	IC	
△IC9501	STR-F6268S-F3	IC	
△IC9541	SE015N-LF12	IC	
IC9901	SI-8033S/F1	IC	
IC9902	PQ1CG2032FZ	IC	
Q9021	UN2211-X	TRANSISTOR	
Q9211	2SK2196	POWER MOS FET	
Q9212	2SC3928A/QR/-X	TRANSISTOR	
Q9213	IMD3A-W	DIGI TRANSISTOR	
Q9215	2SC3928A/QR/-X	TRANSISTOR	
Q9502	2SC3928A/QR/-X	TRANSISTOR	
Q9541	UN2213-X	DIGI TRANSISTOR	
Q9901	2SC3928A/QR/-X	TRANSISTOR	
Q9902	2SC3928A/QR/-X	TRANSISTOR	
Q9903	UN2213-X	DIGI TRANSISTOR	
Q9904	2SC3928A/QR/-X	TRANSISTOR	
Q9905	2SC3928A/QR/-X	TRANSISTOR	
Q9906	UN2213-X	DIGI TRANSISTOR	
D9001	MA3047/H/-X	Z DIODE	
D9021	MA111-X	SI DIODE	
D9111	S1WB/A/60-4101	BRIDGE DIODE	
△D9201	D25XB60	BRIDGE DIODE	
D9202	MA111-X	SI DIODE	
D9211	D5L60	SI DIODE	
D9213	MA111-X	SI DIODE	
D9214	MA111-X	SI DIODE	
D9501	RD12E/B2/-T5	Z DIODE	
D9502	RD33E/B/-T5	Z DIODE	
D9503	RD5.1E/B2/-T5	Z DIODE	
D9504	SARS01-T2	SI DIODE	
D9505	SARS01-T2	SI DIODE	
D9506	D1FL20U-X	SI DIODE	
D9507	PG104RS-T2	FR DIODE	
D9509	D1FS4-X	SB DIODE	
D9510	D1FS4-X	SB DIODE	
D9511	MA111-X	SI DIODE	
D9513	MA111-X	SI DIODE	
D9541	FME-220A	SB DIODE	
D9542	EU2-T3	SI DIODE	
D9543	FME-220A	SB DIODE	
D9544	FME-220A	SB DIODE	
D9545	RD16E/B/-T5	Z DIODE	
D9546	RD16E/B/-T5	Z DIODE	
D9901	RK44-LFT4	SB DIODE	
D9902	MA111-X	SI DIODE	
D9903	EC30HA03L-X	SB DIODE	
D9904	MA111-X	SI DIODE	
D9905	PTZ16B-X	Z DIODE	
△C9001	QFZ9073-225	MM CAPACITOR	2.2uF AC250V M
△C9002	QFZ9075-105	MPP CAPACITOR	1uF AC275V M
△C9011	QCZ9079-102	C CAPACITOR	1000pF AC250V M
△C9013	QCZ9079-102	C CAPACITOR	1000pF AC250V M
△C9101	QCZ9082-472Z	C CAPACITOR	4700pF AC250V M

△Ref No.	Part No.	Part Name	Description Local
△C9102	QCZ9082-472Z	C CAPACITOR	4700pF AC250V M
△C9103	QCZ9082-472Z	C CAPACITOR	4700pF AC250V M
C9111	QEHQ2GM-226	E CAPACITOR	22uF 400V M
C9141	QTMN1CM-477Z	E CAPACITOR	470uF 16V M
C9142	QEHR1AM-337Z	E CAPACITOR	330uF 10V M
C9143	QEHR1CM-107Z	E CAPACITOR	100uF 16V M
△C9197	QCZ9079-102	C CAPACITOR	1000pF AC250V M
△C9198	QCZ9079-222	C CAPACITOR	2200pF AC250V M
△C9201	QCZ9082-222Z	C CAPACITOR	2200pF AC250V M
△C9203	QCZ9082-222Z	C CAPACITOR	2200pF AC250V M
△C9204	QCZ9082-222Z	C CAPACITOR	2200pF AC250V M
△C9205	QCZ9082-222Z	C CAPACITOR	2200pF AC250V M
C9211	QFZ0128-474	MPP CAPACITOR	0.47uF DC400V H
C9212	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C9213	NCB21CK-684X	C CAPACITOR	0.68uF 16V K
C9214	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C9215	QEHR1VM-476Z	E CAPACITOR	47uF 35V M
C9216	QEZ0650-227	E CAPACITOR	220uF 450V M
C9218	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C9501	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C9502	NDC31HJ-221X	C CAPACITOR	220pF 50V J
C9503	QFP32JK-332	PP CAPACITOR	3300pF 630V K
C9504	QFP32JK-332	PP CAPACITOR	3300pF 630V K
C9505	QCZ0354-331Z	C CAPACITOR	330pF 2kV K
C9506	QCZ0354-331Z	C CAPACITOR	330pF 2kV K
C9508	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C9509	QEHR1HM-476Z	E CAPACITOR	47uF 50V M
C9510	QEHR1HM-107Z	E CAPACITOR	100uF 50V M
C9511	QEHR1HM-475Z	E CAPACITOR	4.7uF 50V M
C9512	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C9541	QCZ0354-681Z	C CAPACITOR	680pF 2kV K
C9543	QECR1EM-687Z	E CAPACITOR	680uF 25V M
C9544	QECR1EM-687Z	E CAPACITOR	680uF 25V M
C9545	QEHR2AM-106Z	E CAPACITOR	10uF 100V M
C9546	QCZ0354-681Z	C CAPACITOR	680pF 2kV K
C9547	QCZ0354-681Z	C CAPACITOR	680pF 2kV K
C9548	QECQ1EM-188	E CAPACITOR	1800uF 25V M
C9549	QECQ1EM-188	E CAPACITOR	1800uF 25V M
C9550	QECQ1EM-188	E CAPACITOR	1800uF 25V M
C9551	QECQ1EM-188	E CAPACITOR	1800uF 25V M
C9552	QEHR1HM-106Z	E CAPACITOR	10uF 50V M
C9553	QEHR1HM-107Z	E CAPACITOR	100uF 50V M
C9554	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C9901	NBZ0017-106X	SP E CAPACITOR	10uF 25V M
C9903	QECR1AM-128Z	E CAPACITOR	1200uF 10V M
C9905	NBZ0017-106X	SP E CAPACITOR	10uF 25V M
C9906	QEZ0255-128	E CAPACITOR	1200uF 16V M
C9908	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C9910	QEHR1HM-476Z	E CAPACITOR	47uF 50V M
C9911	QEZ0256-128	E CAPACITOR	1200uF 10V M
C9912	QEHR1CM-477Z	E CAPACITOR	470uF 16V M
△R9001	QRZ9046-105Z	C RESISTOR	1MΩ 1/2W K
R9003	QRE121J-473Y	C RESISTOR	47kΩ 1/2W J
R9004	QRE121J-473Y	C RESISTOR	47kΩ 1/2W J
R9101	QRZ0216-4R7	UNF VVW RESISTOR	4.7Ω 7W K
R9148	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
△R9199	QRZ9046-685Z	C RESISTOR	6.8MΩ 1/2W K
R9201	QRZ0121-200	UNF VVW RESISTOR	20Ω 5W J
R9203	QRL01EJ-561X	OMF RESISTOR	560Ω 1W J
R9211	NRS12BJ-474W	MG RESISTOR	470kΩ 1/2W J
R9212	NRS12BJ-474W	MG RESISTOR	470kΩ 1/2W J
R9213	NRS12BJ-334W	MG RESISTOR	330kΩ 1/2W J
R9214	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R9215	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R9216	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R9217	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R9218	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R9219	NRS12BJ-223W	MG RESISTOR	22kΩ 1/2W J
R9220	QRM059J-R15	MP RESISTOR	0.15Ω 5W J
R9221	QRM059J-R27	MP RESISTOR	0.27Ω 5W J
R9222	NRS12BJ-334W	MG RESISTOR	330kΩ 1/2W J
R9223	NRS12BJ-334W	MG RESISTOR	330kΩ 1/2W J
R9224	NRS12BJ-394W	MG RESISTOR	390kΩ 1/2W J
R9225	NRS12BJ-334W	MG RESISTOR	330kΩ 1/2W J
R9226	NRS12BJ-334W	MG RESISTOR	330kΩ 1/2W J
R9227	NRS12BJ-394W	MG RESISTOR	390kΩ 1/2W J
R9228	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R9233	NRS12BJ-474W	MG RESISTOR	470kΩ 1/2W J
R9236	NRS12BJ-474W	MG RESISTOR	470kΩ 1/2W J
R9237	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R9501	QRL03EJ-333X	OMF RESISTOR	33kΩ 3W J
R9502	QRL03EJ-333X	OMF RESISTOR	33kΩ 3W J
R9503	NRS12BJ-224W	MG RESISTOR	220kΩ 1/2W J
R9504	NRS12BJ-224W	MG RESISTOR	220kΩ 1/2W J
R9505	QRL03EJ-220X	OMF RESISTOR	22Ω 3W J
R9506	QRL03EJ-220X	OMF RESISTOR	22Ω 3W J

△Ref No.	Part No.	Part Name	Description Local
R9507	QRM059J-R15	MP RESISTOR	0.15Ω 5W J
R9508	QRT02EJ-1R5X	MF RESISTOR	1.5Ω 2W J
△R9509	QRZ9009-1R5	FUSI RESISTOR	1.5Ω 1/2W J
R9512	QRK126J-152X	UNF C RESISTOR	1.5kΩ 1/2W J
R9513	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R9514	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R9515	QRK126J-221X	UNF C RESISTOR	220Ω 1/2W J
R9516	NRS12BJ-332W	MG RESISTOR	3.3kΩ 1/2W J
R9517	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R9518	NRS12BJ-100W	MG RESISTOR	10Ω 1/2W J
R9519	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9541	QRL02EJ-152X	OMF RESISTOR	1.5kΩ 2W J
R9542	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R9544	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R9545	QRL02EJ-331X	OMF RESISTOR	330Ω 2W J
R9546	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R9626	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R9902	NRS12BJ-220W	MG RESISTOR	22Ω 1/2W J
R9903	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R9905	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R9906	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R9907	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R9908	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R9909	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R9911	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R9912	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9915	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
R9916	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R9918	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R9919	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R9920	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R9921	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R9922	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R9923	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
L9141	NQL52EN-4R7X	COIL	4.7uH N
L9201	QQR1399-001	CHOKE COIL	
L9541	NQL52EM-220X	COIL	22uH M
L9902	QQR1401-001	CHOKE COIL	
L9904	NQL63EM-470X	COIL	47uH M
L9905	NQL80CL-100X	COIL	10uH L
△T9121	QAL0515-001	POWER TRANSF	
△T9541	QQS0222-001	SW TRANSF	
CN0001	QGB2501J1-13	CONNECTOR	B-B (1-13)
CN000A	QGA2001C2-13V	CONNECTOR	W-B (1-13)
CN000B	QGA1501C2-13V	CONNECTOR	W-B (1-13)
CN000F	QGA2001C2-04V	CONNECTOR	W-B (1-4)
CN000G	QGA1501C2-10V	CONNECTOR	W-B (1-10)
CN000P	QGA1201C2-15X	CONNECTOR	W-B (1-15)
CN000Q	QGA1201C2-15X	CONNECTOR	W-B (1-15)
CN000Y	QGA2001C2-02V	CONNECTOR	W-B (1-2)
CN00E1	CE41507-001P	LV CONNECTOR	
CN00PW	QGA7901C1-02	CONNECTOR	W-B (1-2)
△CP9121	QMFZ043-2R0Z-J1	FUSE	2A AC250V
△CP9211	QMFZ043-5R0Z-J1	FUSE	5A AC250V
△F9001	QMF51D2-6R3-J1	FUSE	6.3A AC250V
△H9211	LC32378-001A	HEAT SINK/AL-F/	
H9541	LC32377-001A	HEAT SINK/AL-F/	
H9901	CM42862-A0A	HEAT SINK ASSY	
H9902	LC31334-002A	HEAT SINK/AL-F/	
K9001	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
K9501	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
K9502	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
K9503	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
K9504	QQR0621-002Z	FERRITE BEADS	
K9505	QQR0621-002Z	FERRITE BEADS	
K9541	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
K9542	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
K9543	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
K9544	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
K9545	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
K9901	NQR0413-003X	FERRITE BEADS	
△LF9001	QQR1281-004	LINE FILTER	
△LF9002	QQR1281-004	LINE FILTER	
△LF9003	QQR1376-001	LINE FILTER	
△PC9001	PC123Y22	PHOTO COUPLER	
△PC9541	PC123Y22	PHOTO COUPLER	
△PC9542	PC123Y22	PHOTO COUPLER	
△RY9021	QSK0119-001	RELAY	
△RY9201	QSK0117-001	RELAY	
△VA9001	ERZV10V621CS	ZNR	

REGULATOR P.W. BOARD ASS'Y (LCA90150-03D)(SSB-9186A)

△Ref No.	Part No.	Part Name	Description Local
IC9801	SI-8090JD-W	IC	
IC9802	SI-8050JD-W	IC	
IC9803	SI-8050JD-W	IC	
Q9801	2SC3928A/QR/-X	TRANSISTOR	
Q9802	2SC3928A/QR/-X	TRANSISTOR	
Q9803	2SC3928A/QR/-X	TRANSISTOR	
Q9804	2SC3928A/QR/-X	TRANSISTOR	
Q9805	UN2213-X	DIGI TRANSISTOR	
D9801	EC30HA03L-X	SB DIODE	
D9802	MA111-X	SI DIODE	
D9803	EC30HA03L-X	SB DIODE	
D9804	MA111-X	SI DIODE	
D9805	MA3030/H/-X	Z DIODE	
D9806	EC30HA03L-X	SB DIODE	
D9807	PTZ6.8B-X	Z DIODE	
D9808	MA111-X	SI DIODE	
D9809	PTZ11B-X	Z DIODE	
D9810	PTZ6.8B-X	Z DIODE	
C9801	NBZ0017-106X	SP E CAPACITOR	10uF 25V M
C9803	NBZ0010-396X	SP E CAPACITOR	39uF 16V M
C9805	NBZ0017-106X	SP E CAPACITOR	10uF 25V M
C9807	NBZ0010-396X	SP E CAPACITOR	39uF 16V M
C9809	NEH91HM-105X	E CAPACITOR	1uF 50V M
C9810	NBZ0017-106X	SP E CAPACITOR	10uF 25V M
C9811	NBZ0010-396X	SP E CAPACITOR	39uF 16V M
C9813	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C9814	NEH90JM-107X	E CAPACITOR	100uF 6.3V M
C9815	NEH91CM-476X	E CAPACITOR	47uF 16V M
C9816	NEH90JM-107X	E CAPACITOR	100uF 6.3V M
C9817	NEH90JM-107X	E CAPACITOR	100uF 6.3V M
R9801	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9802	NRS12BJ-6R8W	MG RESISTOR	6.8Ω 1/2W J
R9803	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D
R9804	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D
R9807	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R9808	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R9809	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R9810	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R9811	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9812	NRS12BJ-220W	MG RESISTOR	22Ω 1/2W J
R9813	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R9815	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R9816	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R9817	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R9818	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R9819	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R9820	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R9821	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9822	NRS12BJ-220W	MG RESISTOR	22Ω 1/2W J
R9823	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R9825	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R9826	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R9827	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R9828	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R9829	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R9831	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
L9802	NQL63EM-101X	COIL	100uH M
L9804	NQL63EM-101X	COIL	100uH M
L9806	NQL63EM-101X	COIL	100uH M
L9807	NQL80CL-100X	COIL	10uH L
CN1001	QGB2501K2-13	CONNECTOR	B-B (1-13)
K9801	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
K9802	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
K9803	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J

RECEIVER P.W. BOARD ASS'Y (LCA90182-01B)(SSB-0J086A)

△Ref No.	Part No.	Part Name	Description Local
IC1101	M62320FP-X	IC	
IC1102	CXA2134Q-X	IC	
IC1501	CXA2069Q	IC	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
IC6101	AN77L12-T	IC		C1146	QETN1HM-105Z	E CAPACITOR	1uF 50V M
IC6401	TA8119P	IC		C1147	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
IC6501	NJW1137M-W	IC		C1148	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC6531	RC4558D-X	IC		C1149	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
IC6551	RC4558D-X	IC		C1150	QETN1CM-107Z	E CAPACITOR	100uF 16V M
IC6641	TA2024ASE-X	IC		C1151	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
IC6701	M62320FP-X	IC		C1152	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
				C1153	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
Q1101	2SC3928A/QR/-X	TRANSISTOR		C1154	NCB31HK-272X	C CAPACITOR	2700pF 50V K
Q1102	2SA1530A/QR/-X	TRANSISTOR		C1155	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
Q1103	2SC3928A/QR/-X	TRANSISTOR		C1156	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M
Q2251	KTA1267/YG/-T	TRANSISTOR		C1157	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
Q2252	KTA1267/YG/-T	TRANSISTOR		C1158	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q2253	KTA1267/YG/-T	TRANSISTOR		C1159	QETN1HM-105Z	E CAPACITOR	1uF 50V M
Q2254	UN2226-X	DIGI TRANSISTOR		C1160	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
Q2255	UN2226-X	DIGI TRANSISTOR		C1161	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
Q2256	UN2110-X	DIGI TRANSISTOR		C1162	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
Q2260	2SA1530A/QR/-X	TRANSISTOR		C1163	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
Q6401	UN2110-X	DIGI TRANSISTOR		C1164	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
Q6402	UN2226-X	DIGI TRANSISTOR		C1165	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q6504	2SC3928A/QR/-X	TRANSISTOR		C1166	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
Q6505	2SC3928A/QR/-X	TRANSISTOR		C1167	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
Q6506	2SA1530A/QR/-X	TRANSISTOR		C1168	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q6551	2SC3928A/QR/-X	TRANSISTOR		C1170	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
Q6552	2SC3928A/QR/-X	TRANSISTOR		C1171	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
Q6581	2SC3928A/QR/-X	TRANSISTOR		C1505	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q6582	2SA1530A/QR/-X	TRANSISTOR		C1506	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q6591	DTC323TK-X	DIGI TRANSISTOR		C1507	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q6592	DTC323TK-X	DIGI TRANSISTOR		C1508	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q6593	2SA1530A/QR/-X	TRANSISTOR		C1510	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M
Q6601	2SC3928A/QR/-X	TRANSISTOR		C1522	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
Q6702	2SA1530A/QR/-X	TRANSISTOR		C1532	QETN1HM-226Z	E CAPACITOR	22uF 50V M
Q6703	2SC3928A/QR/-X	TRANSISTOR		C1535	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q6704	2SC3928A/QR/-X	TRANSISTOR		C1536	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q6705	2SA1530A/QR/-X	TRANSISTOR		C1537	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
				C1538	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D2101	MA8100/M/-X	Z DIODE		C1539	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D2121	MA8100/M/-X	Z DIODE		C1540	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D2201	MA8100/M/-X	Z DIODE		C1541	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D2204	MA8100/M/-X	Z DIODE		C1591	QETN1CM-477Z	E CAPACITOR	470uF 16V M
D2205	MA8100/M/-X	Z DIODE		C1593	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
D2206	MA8100/M/-X	Z DIODE		C2102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D2209	MA8100/M/-X	Z DIODE		C2103	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D2210	MA8100/M/-X	Z DIODE		C2104	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D2212	MA8100/M/-X	Z DIODE		C2105	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
D2213	MA8100/M/-X	Z DIODE		C2106	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
D2215	MA8100/M/-X	Z DIODE		C2123	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D2216	MA8100/M/-X	Z DIODE		C2124	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D2217	MA8100/M/-X	Z DIODE		C2125	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D2218	MA8100/M/-X	Z DIODE		C2127	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
D2219	MA8100/M/-X	Z DIODE		C2128	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
D2251	MA8100/M/-X	Z DIODE		C2144	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D2252	MA8100/M/-X	Z DIODE		C2145	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
D2253	MA8100/M/-X	Z DIODE		C2146	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
D2258	MA111-X	SI DIODE		C2251	QETN1HM-105Z	E CAPACITOR	1uF 50V M
D2259	MA111-X	SI DIODE		C2252	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
D6401	1SR35-400A-T2	SI DIODE		C2253	QETN1AM-108Z	E CAPACITOR	1000uF 10V M
D6541	MA8062/M/-X	Z DIODE		C2254	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
D6561	MA111-X	SI DIODE		C2255	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
D6562	MA111-X	SI DIODE		C2256	NCB21CK-105X	C CAPACITOR	1uF 16V K
D6571	MA111-X	SI DIODE		C2257	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
D6572	MA111-X	SI DIODE		C2261	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
D6573	MA111-X	SI DIODE		C2262	QETN1AM-108Z	E CAPACITOR	1000uF 10V M
D6574	MA111-X	SI DIODE		C2263	QETN1EM-476Z	E CAPACITOR	47uF 25V M
D6581	MA111-X	SI DIODE		C6101	QETN1EM-476Z	E CAPACITOR	47uF 25V M
D6582	MA111-X	SI DIODE		C6102	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
D6583	MA111-X	SI DIODE		C6103	QETN1EM-476Z	E CAPACITOR	47uF 25V M
D6584	MA111-X	SI DIODE		C6104	NCB31HK-102X	C CAPACITOR	1000pF 50V K
D6585	MA111-X	SI DIODE		C6401	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D6641	D1FS4-X	SB DIODE		C6402	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D6642	D1FS4-X	SB DIODE		C6403	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
D6643	D1FS4-X	SB DIODE		C6404	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
D6644	D1FS4-X	SB DIODE		C6405	QETN1AM-227Z	E CAPACITOR	220uF 10V M
D6701	MA111-X	SI DIODE		C6406	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D6702	MA111-X	SI DIODE		C6407	QETN1AM-227Z	E CAPACITOR	220uF 10V M
				C6408	QETN1AM-227Z	E CAPACITOR	220uF 10V M
C1102	QETN1CM-477Z	E CAPACITOR	470uF 16V M	C6409	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1103	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C6410	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1109	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	C6503	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1110	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C6504	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1118	NDC31HJ-221X	C CAPACITOR	220pF 50V J	C6505	NCB31HK-332X	C CAPACITOR	3300pF 50V K
C1119	NDC31HJ-221X	C CAPACITOR	220pF 50V J	C6506	NCB31HK-332X	C CAPACITOR	3300pF 50V K
C1141	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	C6507	NCB31HK-333X	C CAPACITOR	0.033uF 50V K
C1142	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	C6508	NCB31HK-333X	C CAPACITOR	0.033uF 50V K
C1143	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	C6509	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C1144	NCB31HK-562X	C CAPACITOR	5600pF 50V K	C6510	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C1145	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	C6511	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C6512	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R1150	NRSA63F-623X	MG RESISTOR	62kΩ 1/16W F
C6513	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R1152	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C6514	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R1154	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J
C6515	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R1155	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
C6516	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R1501	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6517	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R1502	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6518	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R1503	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6519	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R1504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6520	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R1505	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6521	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R1506	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6522	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R1511	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C6523	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R1514	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C6531	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R1515	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6532	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R1516	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6533	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R1517	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6534	NDC31HJ-100X	C CAPACITOR	10pF 50V J	R1518	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6535	NDC31HJ-100X	C CAPACITOR	10pF 50V J	R1519	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6541	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R1520	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6551	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	R1521	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6552	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	R1522	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6553	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	R1523	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C6554	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	R1524	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6555	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1525	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C6556	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1526	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6557	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R1527	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6561	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R1528	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6563	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R1529	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6571	NCB11EK-105X	C CAPACITOR	1uF 25V K	R1530	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C6572	NCB11EK-105X	C CAPACITOR	1uF 25V K	R1533	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6573	NCB11EK-105X	C CAPACITOR	1uF 25V K	R1534	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6574	NCB11EK-105X	C CAPACITOR	1uF 25V K	R1536	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6575	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R1551	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6576	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R1552	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6577	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R1553	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6578	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R1555	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6581	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1557	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6582	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R1574	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C6583	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R2102	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C6591	NDC31HJ-101X	C CAPACITOR	100pF 50V J	R2103	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C6592	NDC31HJ-101X	C CAPACITOR	100pF 50V J	R2104	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C6593	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R2105	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C6602	QETN1EM-227Z	E CAPACITOR	220uF 25V M	R2106	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C6603	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R2122	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C6604	QETN1EM-227Z	E CAPACITOR	220uF 25V M	R2123	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C6605	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R2125	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C6606	NCB11EK-105X	C CAPACITOR	1uF 25V K	R2126	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C6607	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R2127	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C6608	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R2144	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C6610	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R2145	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C6611	NCB11EK-105X	C CAPACITOR	1uF 25V K	R2146	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C6612	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R2251	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
C6613	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R2252	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C6614	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R2253	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C6621	NCB11EK-105X	C CAPACITOR	1uF 25V K	R2254	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
C6622	NCB11EK-105X	C CAPACITOR	1uF 25V K	R2255	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
C6623	NDC31HJ-121X	C CAPACITOR	120pF 50V J	R2259	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C6624	NDC31HJ-121X	C CAPACITOR	120pF 50V J	R2261	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C6641	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	R2262	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C6642	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	R2263	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
C6643	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	R2264	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C6644	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	R2265	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C6645	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R2268	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
C6646	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R2269	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C6647	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R2270	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C6648	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R2273	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C6701	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R2274	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C6702	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R2275	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C6704	NCB11EK-105X	C CAPACITOR	1uF 25V K	R2276	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C6705	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R2277	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
				R2278	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R1102	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R2281	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R1103	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R2282	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R1107	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R2283	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R1111	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2284	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1112	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2286	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1120	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R2288	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R1126	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R6101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1131	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R6102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1132	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	R6103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1133	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R6104	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1141	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R6105	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1144	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R6106	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1145	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R6107	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1146	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R6108	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1147	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R6401	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1148	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R6402	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1149	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R6403	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R6404	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R6734	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R6406	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R6735	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R6407	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L1102	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
R6408	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	L1591	QLL26AK-330Z	COIL	33uH K
R6409	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	L1593	QLL26AK-220Z	COIL	22uH K
R6508	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	L6641	QLL28AM-100	COIL	10uH M
R6509	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	L6642	QLL28AM-100	COIL	10uH M
R6510	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	L6643	QLL28AM-100	COIL	10uH M
R6511	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	L6644	QLL28AM-100	COIL	10uH M
R6512	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	CN000F	QGA2001C2-04V	CONNECTOR	W-B (1-4)
R6513	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	△CN000G	QGA1501C2-10V	CONNECTOR	W-B (1-10)
R6514	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CN000J	QGA1501C2-11V	CONNECTOR	W-B (1-11)
R6515	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CN000K	QGA1501C2-07V	CONNECTOR	W-B (1-7)
R6517	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	CN000N	QGA1501C2-04V	CONNECTOR	W-B (1-4)
R6518	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	CN000S	QGA2501C5-06Z	CONNECTOR	W-B (1-6)
R6531	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	CN000U	QGA1501C2-04V	CONNECTOR	W-B (1-4)
R6532	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	CN00AU	QGA2001C2-03V	CONNECTOR	W-B (1-3)
R6533	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	CN00E1	QUB130-16EPFX	SIN TWIST WIRE	
R6534	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	J2001	QND0102-001	S JACK	INPUT-1 S IN
R6535	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	J2002	QNN0370-001	PIN JACK	INPUT-1 V/L/R IN
R6536	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	J2011	QND0102-001	S JACK	INPUT-2 S IN
R6541	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	J2012	QNN0370-001	PIN JACK	INPUT-2 V/L/R IN
R6551	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	J2021	QNN0370-001	PIN JACK	COMPONENT IN
R6552	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	J2031	QND0102-001	S JACK	S OUT
R6553	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	J2032	QNN0370-001	PIN JACK	V/L/R OUT
R6554	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	K6101	NQR0413-002X	FERRITE BEADS	
R6555	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	K6591	NQR0413-002X	FERRITE BEADS	
R6556	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	K6592	NQR0413-002X	FERRITE BEADS	
R6557	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	K6641	NQR0413-002X	FERRITE BEADS	
R6558	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	K6642	NQR0413-002X	FERRITE BEADS	
R6559	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K6643	NQR0413-002X	FERRITE BEADS	
R6560	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K6644	NQR0413-002X	FERRITE BEADS	
R6561	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	△TU1101	QAU0322-001	TUNER	
R6562	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R6563	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J				
R6564	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R6565	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J				
R6571	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J				
R6572	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J				
R6573	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J				
R6574	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J				
R6575	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J				
R6576	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J				
R6577	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J				
R6578	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J				
R6579	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R6581	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J				
R6582	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J				
R6583	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J				
R6584	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J				
R6585	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J				
R6586	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J				
R6587	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R6588	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R6591	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J				
R6592	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J				
R6593	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J				
R6594	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J				
R6597	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R6601	NRSA63D-822X	MG RESISTOR	8.2kΩ 1/16W D				
R6604	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R6606	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R6621	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J				
R6622	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J				
R6623	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J				
R6624	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J				
R6641	QRK126J-100X	UNF C RESISTOR	10Ω 1/2W J				
R6642	QRK126J-100X	UNF C RESISTOR	10Ω 1/2W J				
R6701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R6702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R6703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R6704	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J				
R6705	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R6706	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R6708	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R6709	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R6710	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R6723	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R6724	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R6725	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R6727	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J				
R6728	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R6729	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J				
R6730	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J				
R6731	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R6732	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R6733	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J				

FRONT SENSOR SW P.W. BOARD ASS'Y (LCA90155-03B)(SSB-0L286A)

△Ref No.	Part No.	Part Name	Description Local
IC8752	GP1UM281QK	IR DETECT UNIT	38kHz
C8752	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M
R8756	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R8757	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R8759	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
CN8003	QGB2542J1-08	CONNECTOR	B-B (1-8)

FRONT CONTROL P.W. BOARD ASS'Y (LCA90154-03D)(SSB-0L386A)

△Ref No.	Part No.	Part Name	Description Local
Q8701	UN2212-X	TRANSISTOR	
Q8702	UN2212-X	TRANSISTOR	
Q8703	2SC3928A/QR/-X	TRANSISTOR	
D6411	MA8062/M/-X	Z DIODE	
D6412	MA8062/M/-X	Z DIODE	
D6413	MA8062/M/-X	Z DIODE	
D8702	HLMPNS30J00-T16	LED	POWER
C6411	QETN1AM-227Z	E CAPACITOR	220uF 10V M
C6412	QETN1AM-227Z	E CAPACITOR	220uF 10V M
C6413	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C6414	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
R6411	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R6412	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R6413	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R6414	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R6415	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6416	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6417	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R8701	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R8702	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local
R8703	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R8704	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R8712	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R8713	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R8714	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
CN3003	QGB2542K1-08	CONNECTOR	B-B (1-8)
CN300T	QGA1501C2-10V	CONNECTOR	W-B (1-10)
CN300U	QGA1501C2-04V	CONNECTOR	W-B (1-4)
J6401	QMS3004-C01	H.P.JACK	HEADPHONE
S8701	QSW0797-001	TACT SWITCH	VOL+
S8702	QSW0797-001	TACT SWITCH	VOL-
S8703	QSW0797-001	TACT SWITCH	CH+
S8704	QSW0797-001	TACT SWITCH	CH-
S8705	QSW0797-001	TACT SWITCH	INPUT
S8706	QSW0797-001	TACT SWITCH	MENU
S8707	QSW0797-001	TACT SWITCH	POWER

MI-CON & DIST MODULE P.W. BOARD ASS'Y (LCA10291-06A)(SSB-0D098A)

△Ref No.	Part No.	Part Name	Description Local
MD001 IC704	LCA10291-06A	MI-COM & DIST MODULE PWB IC	(SERVICE)

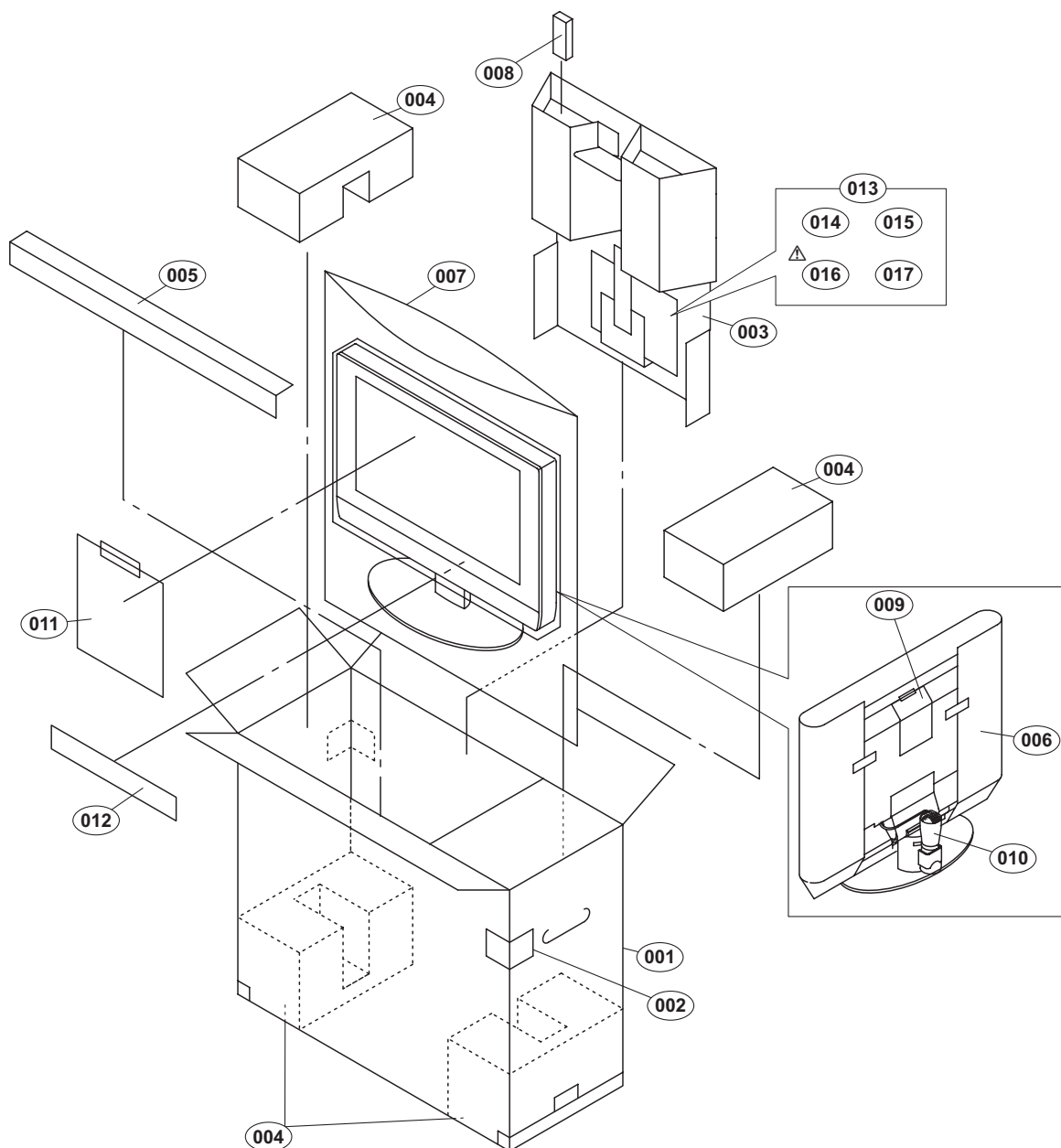
DIGITAL INPUT MODULE P.W. BOARD ASS'Y (26WX84KCP-S)

△Ref No.	Part No.	Part Name	Description Local
MD001	26WX84KCP-S	DIGITAL INPUT MODULE PWB	

REMOTE CONTROL UNIT PARTS LIST (RM-C13G-1H)

△Ref No.	Part No.	Part Name	Description Local
	R25-8173	BATTERY COVER	

PACKING



PACKING PARTS LIST

△ Ref.No.	Part No.	Part Name	Description	Local
001	LC10006-027C	PACKING CASE		
002	GG20025-001A-H	CORNER LABEL	(x2)	
003	LC21411-001A	CUSHION		
004	LC11697-001B	CUSHION ASSY	4pcs in 1set	
005	LC41553-002A	TOP PAD		
006	LC41664-001A	SET COVER		
007	CP30974-005	POLY BAG		
008	RM-C13G-1H	REMOCON UNIT	Inc.POLY BAG	
009	LCT1623-001A	CAUTION SHEET		
010	QPH02002005	POLY SHEET	20cm x 20cm	
011	LCT1624-001A	INST SHEET		
012	LC41748-001A	CARTON SHEET		
013	QPA02503505P	POLY BAG	25cm x 35cm	
014	-----	BATTERY	R6P/AA(x2)	
015	BT-56013-1	WARRANTY CARD		
△ 016	LCT1622-001A	INST BOOK		
017	LCT1625-001A	INST SHEET		

JVC

SCHEMATIC DIAGRAMS

LCD FLAT TELEVISION

LT-26WX84 /K

CD-ROM No.SML200404

BASIC CHASSIS
SB5




I'Art™ *Palette*
D.I.S.T.
Digital Image Scaling Technology

BBE

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal : Colour bar signal
- (2)Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3)Internal resistance of tester : DC 20k Ω /V
- (4)Oscilloscope sweeping time : H \Rightarrow 20 μ s / div
: V \Rightarrow 5ms / div
: Others \Rightarrow Sweeping time is specified
- (5)Voltage values : All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R1209 \rightarrow R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

- Resistance value

No unit	: [Ω]
K	: [k Ω]
M	: [M Ω]

- Rated allowable power

No indication	: 1/16 [W]
Others	: As specified

- Type

No indication	: Carbon resistor
OMR	: Oxide metal film resistor
MFR	: Metal film resistor
MPR	: Metal plate resistor
UNFR	: Uninflammable resistor
FR	: Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

- Capacitance value

1 or higher	: [pF]
less than 1	: [μ F]

- Withstand voltage

No indication	: DC50[V]
Others	: DC withstand voltage [V]
AC indicated	: AC withstand voltage [V]

* Electrolytic Capacitors

47/50[Example]: Capacitance value [μ F]/withstand voltage[V]

- Type

No indication	: Ceramic capacitor
MM	: Metalized mylar capacitor
PP	: Polypropylene capacitor
MPP	: Metalized polypropylene capacitor
MF	: Metalized film capacitor
TF	: Thin film capacitor
BP	: Bipolar electrolytic capacitor
TAN	: Tantalum capacitor

(3)Coils

No unit	: [μ H]
Others	: As specified

(4)Power Supply



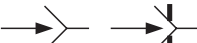
	: B1		: B2 (12V)
	: 9V		: 5V

* Respective voltage values are indicated





(5)Test point

	: Test point		: Only test point display
---	--------------	---	---------------------------



(6)Connecting method

	: Connector		: Wrapping or soldering
	: Receptacle		

(7)Ground symbol

	: LIVE side ground
	: ISOLATED(NEUTRAL) side ground
	: EARTH ground
	: DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : () side GND and the ISOLATED(NEUTRAL) : () side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

NOTE

◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.

When ordering parts, please use the numbers that appear in the Parts List.

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USING P.W. BOARD

PWB ASS'Y name	PWB ASS'Y No.	
RECEIVER P.W. BOARD	LCA90182-01B	SSB-0J086A
VIDEO P.W. BOARD	LCA90152-03C	SSB-1086A
POWER P.W. BOARD	LCA90149-03F	SSB-9086A
REGURATOR P.W. BOARD	LCA90150-03D	SSB-9186A
FRONT SENSOR P.W. BOARD	LCA90155-03B	SSB-0L286A
FRONT CONTROL P.W. BOARD	LCA90154-03D	SSB-0L386A

SEMICONDUCTOR SHAPES

TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW

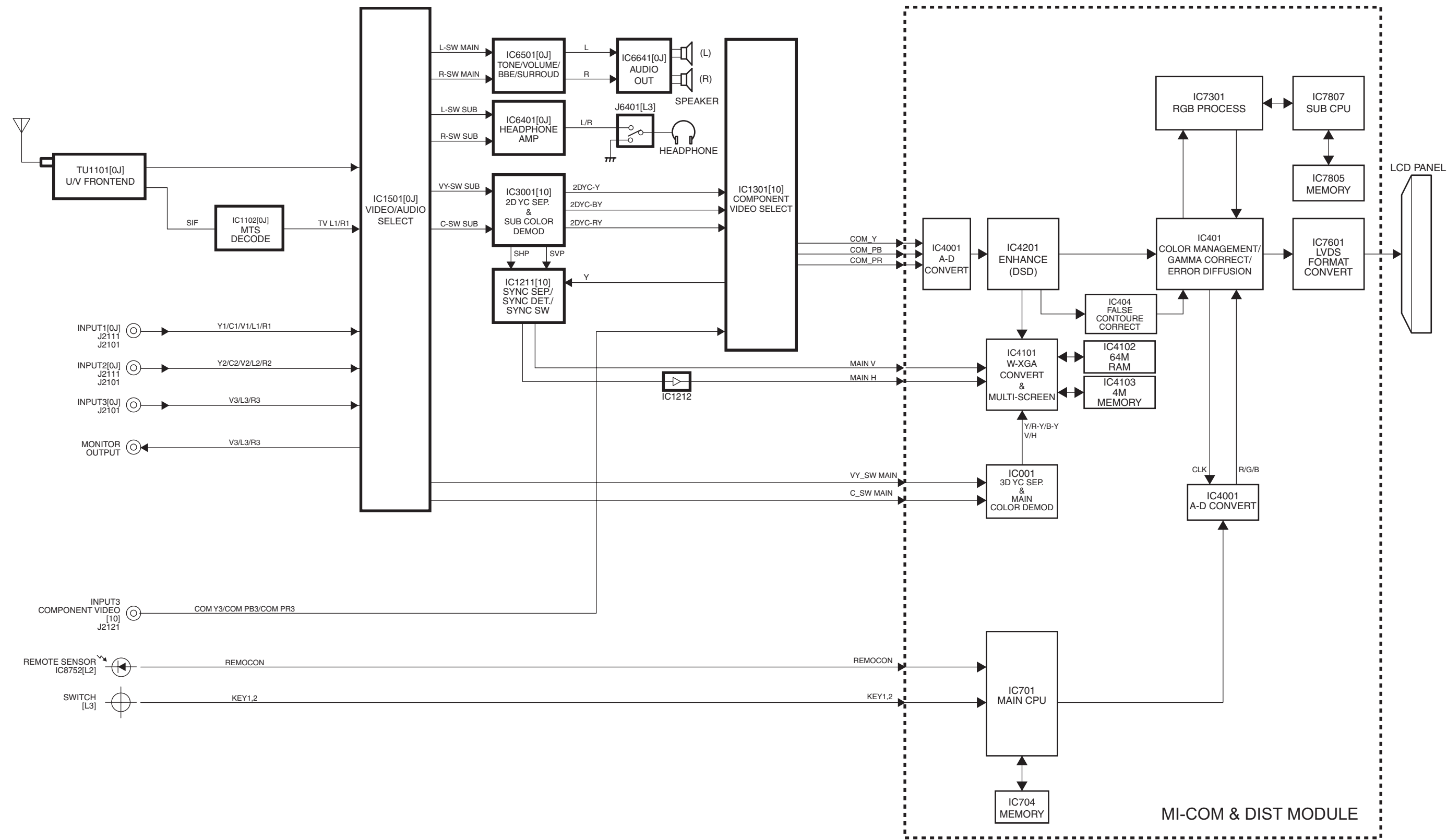
IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW

CHIP IC

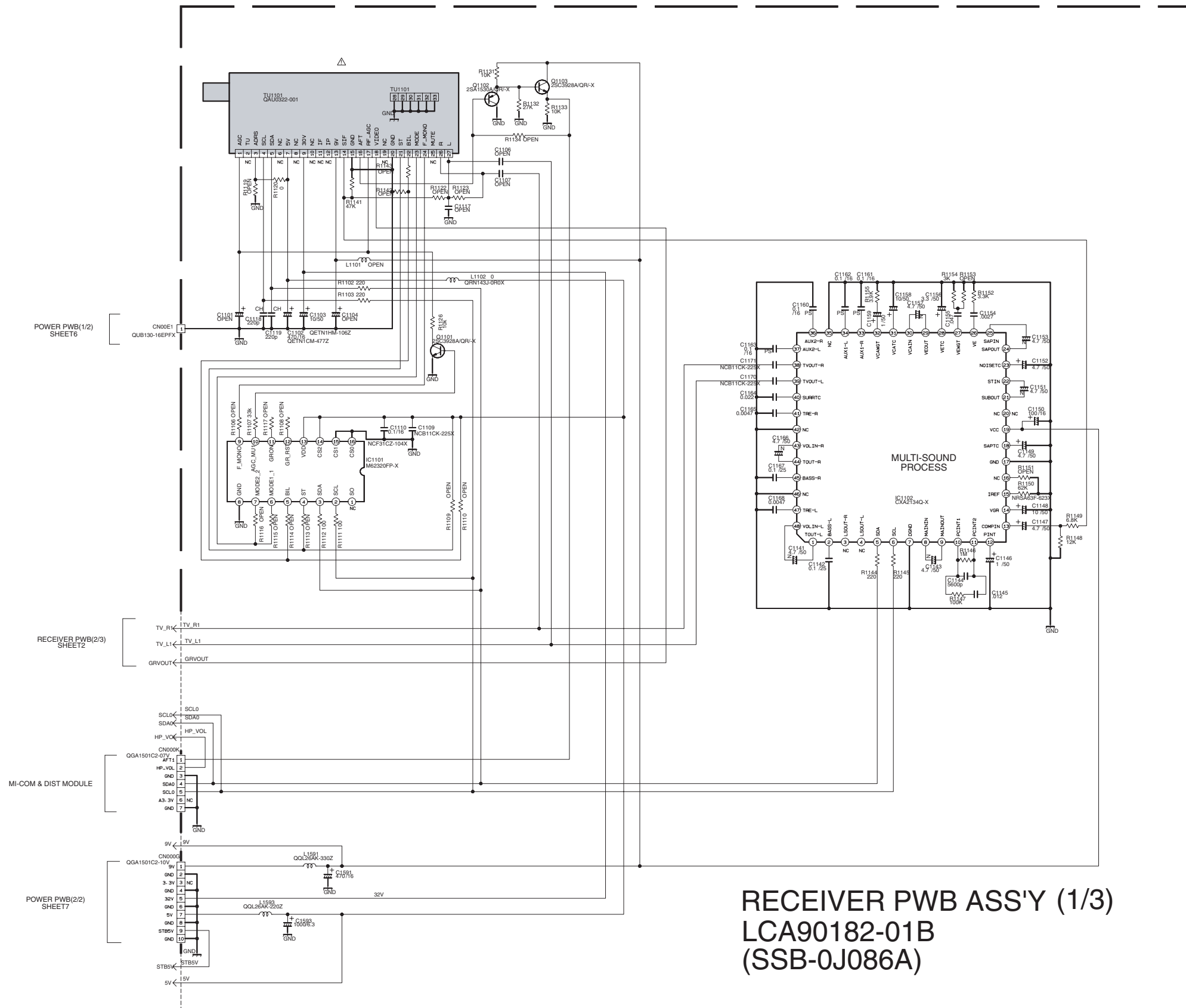
TOP VIEW		

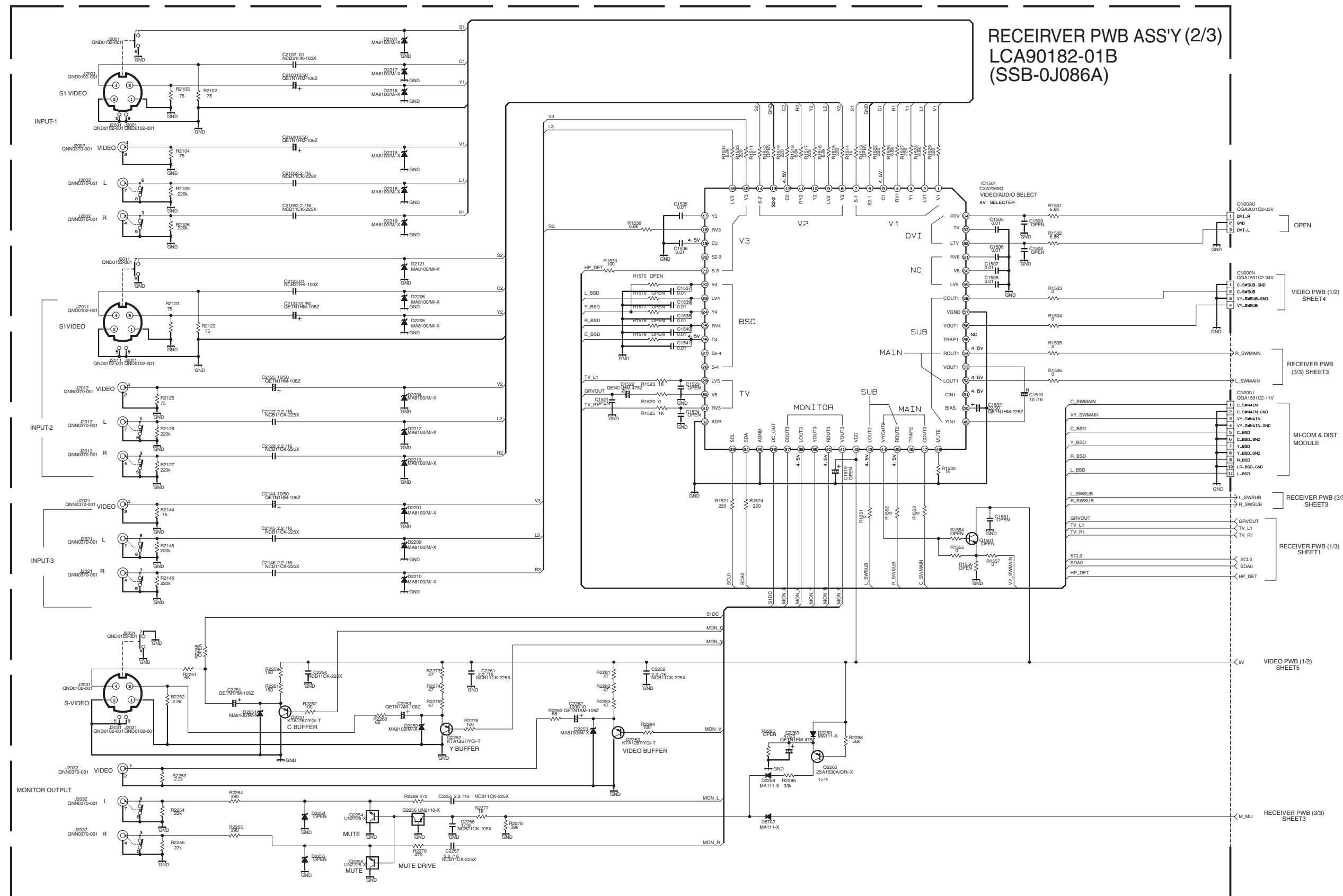
BLOCK DIAGRAM



RECEIVER PWB CIRCUIT DIAGRAM (1/3) SHEET1

RECEIVER PWB CIRCUIT DIAGRAM (1/3) SHEET1

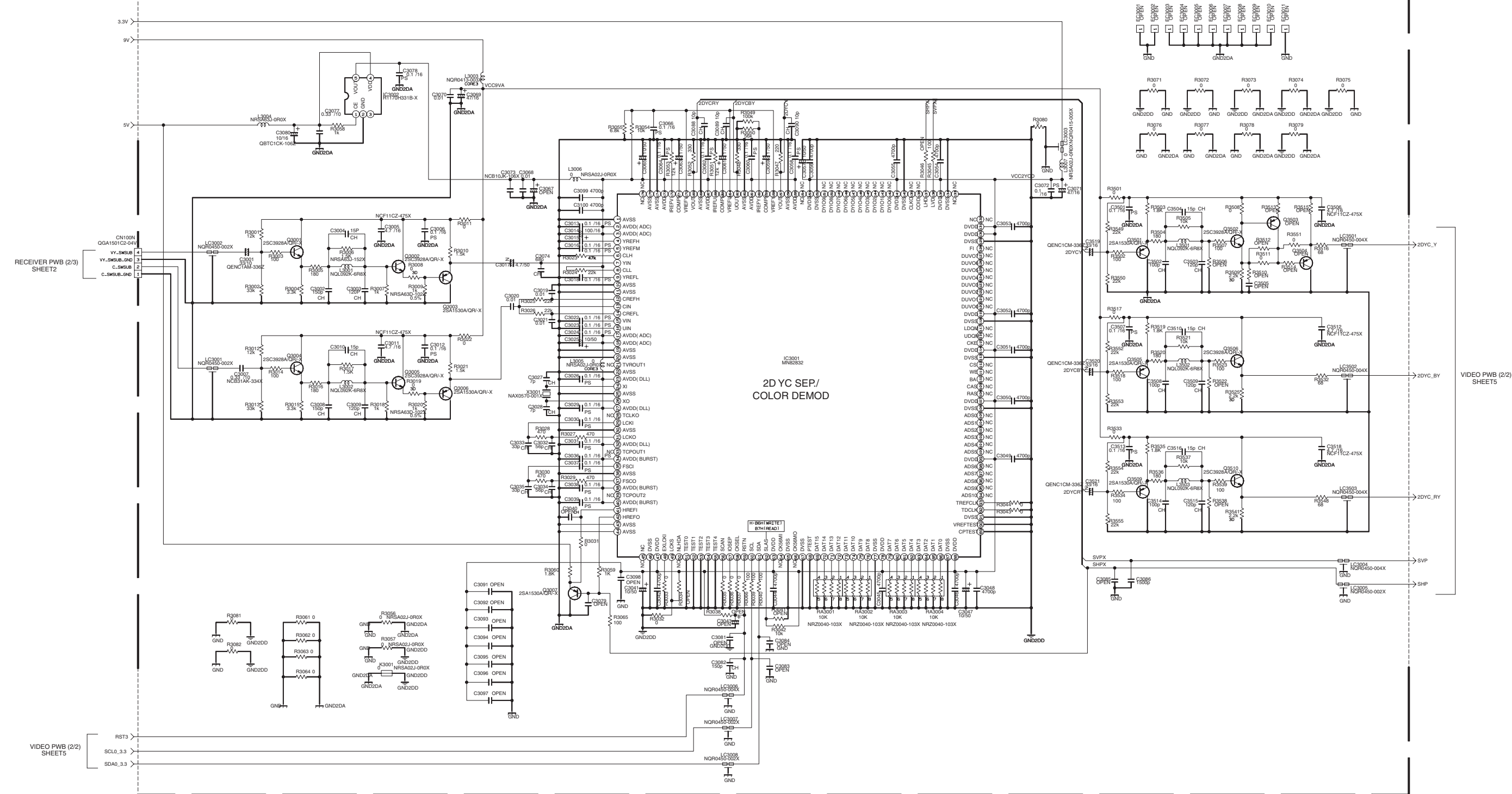


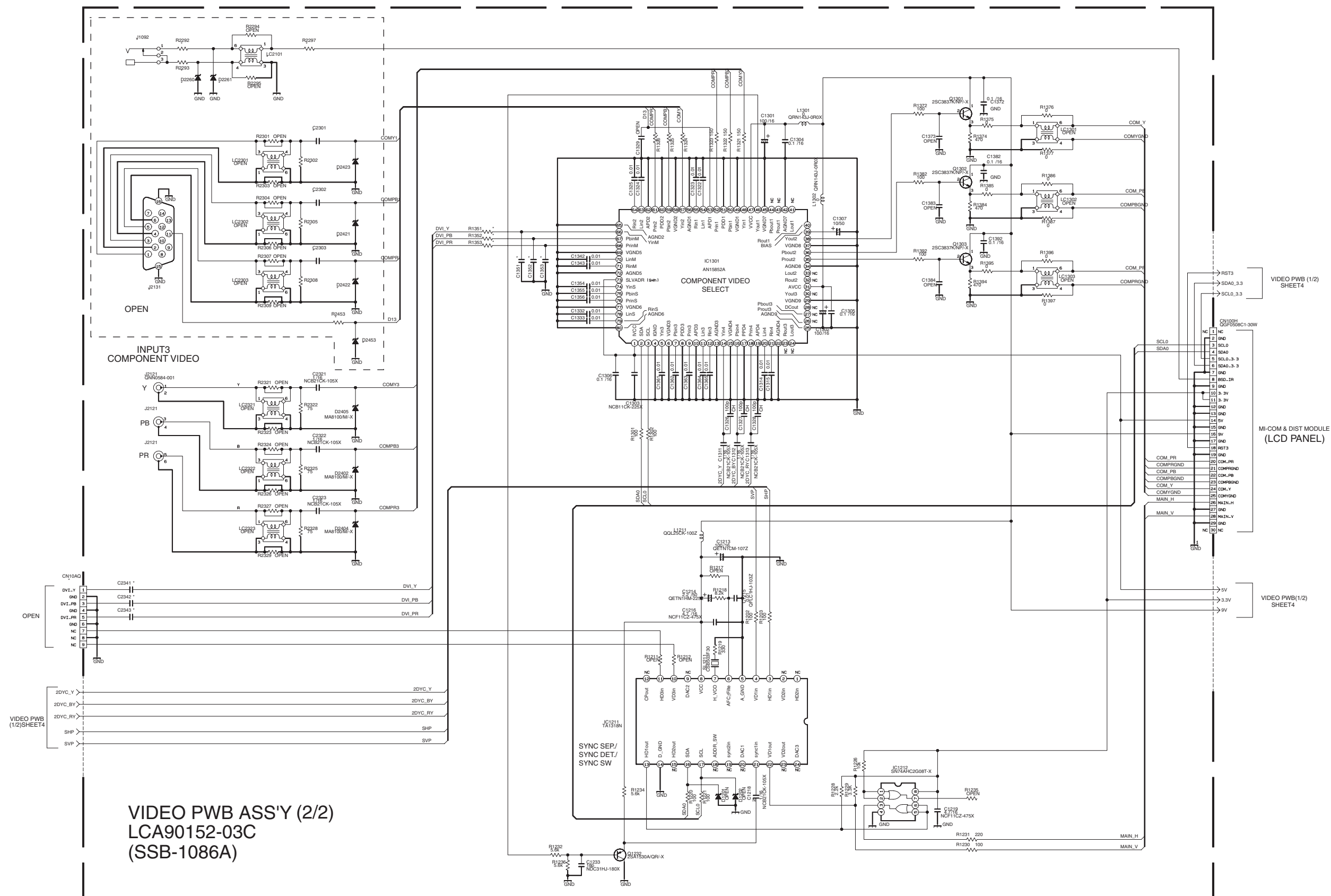


NOTES) 1.Please refer to page 2-35 for voltages of this circuit diagram.
2.Please refer to page 2-36 for waveforms of this circuit diagram.

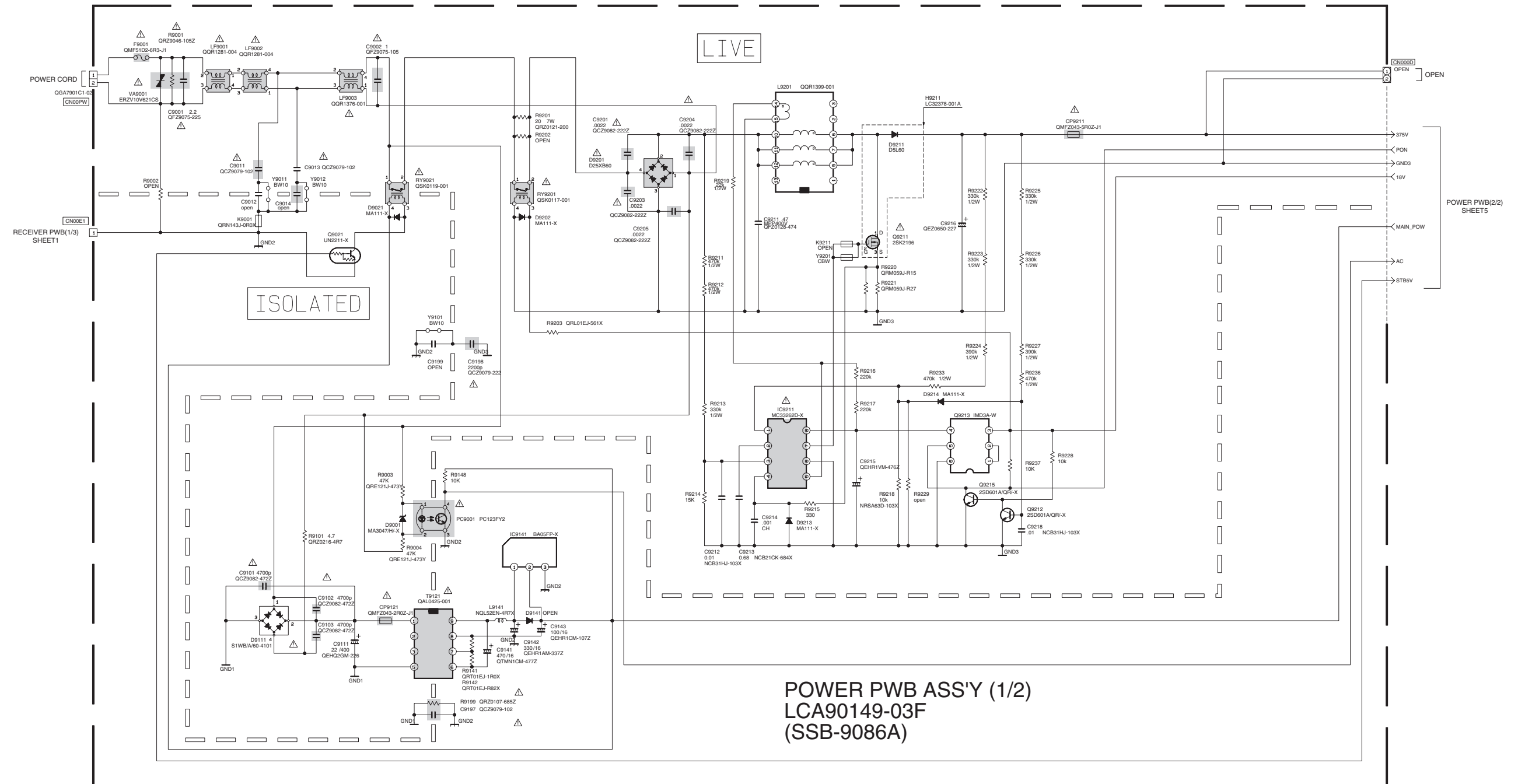


VIDEO PWB ASS'Y (1/2)
LCA90152-03C
(SSB-1086A)

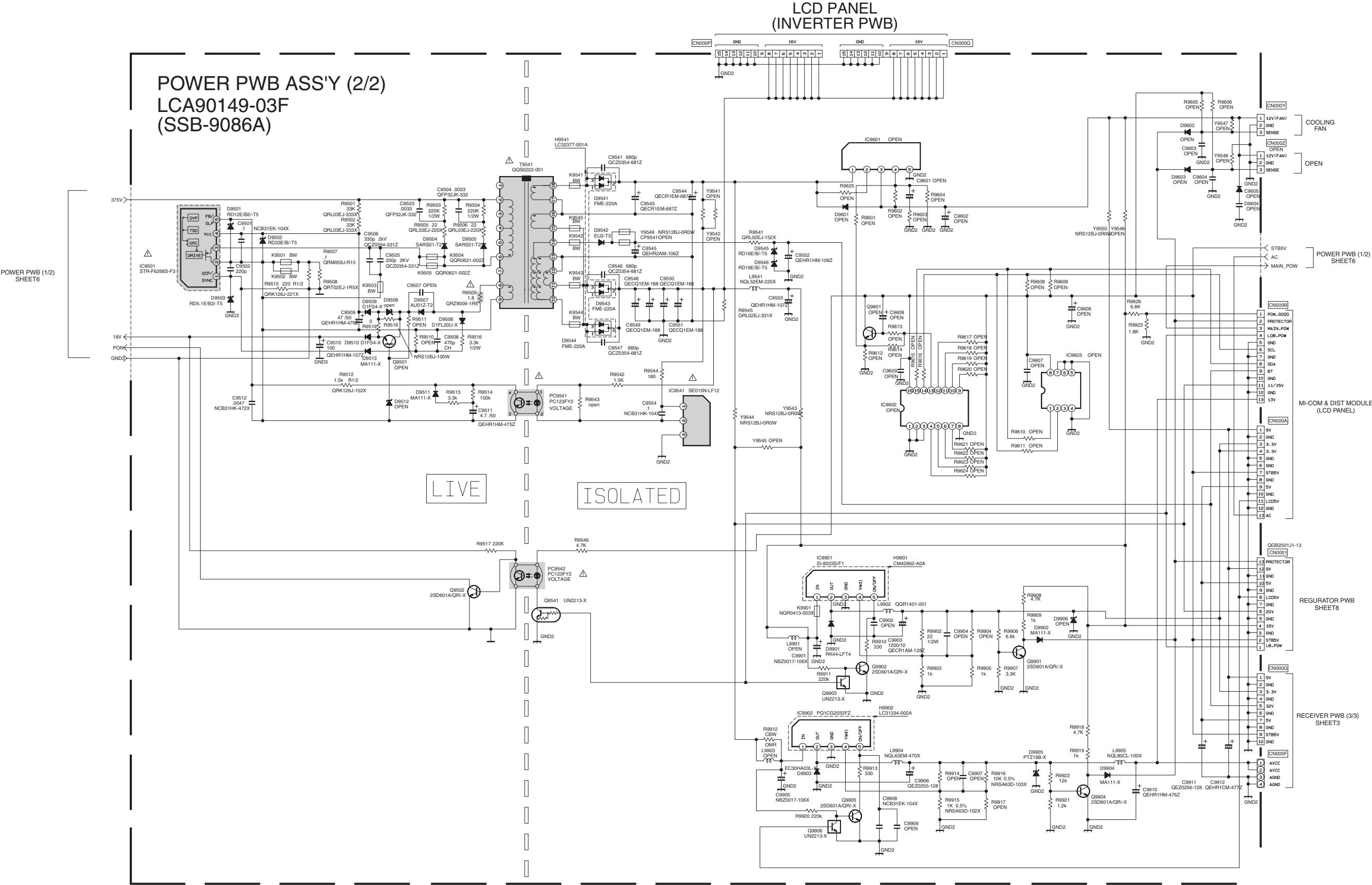




NOTES) 1.Please refer to page 2-35 for voltages of this circuit diagram.
2.Please refer to page 2-36 for waveforms of this circuit diagram.

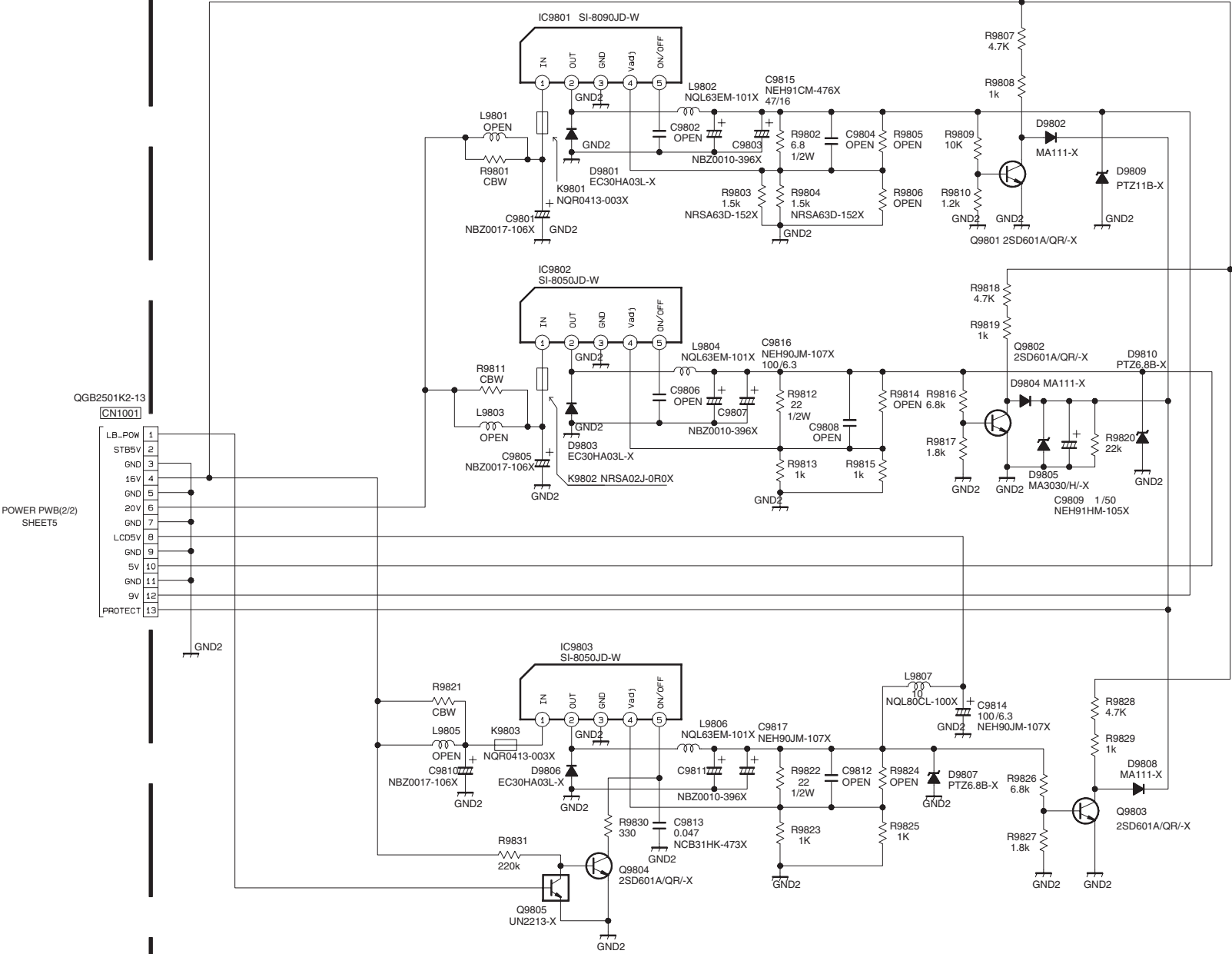


NOTES) 1.Please refer to page 2-35 for voltages of circuit diagram



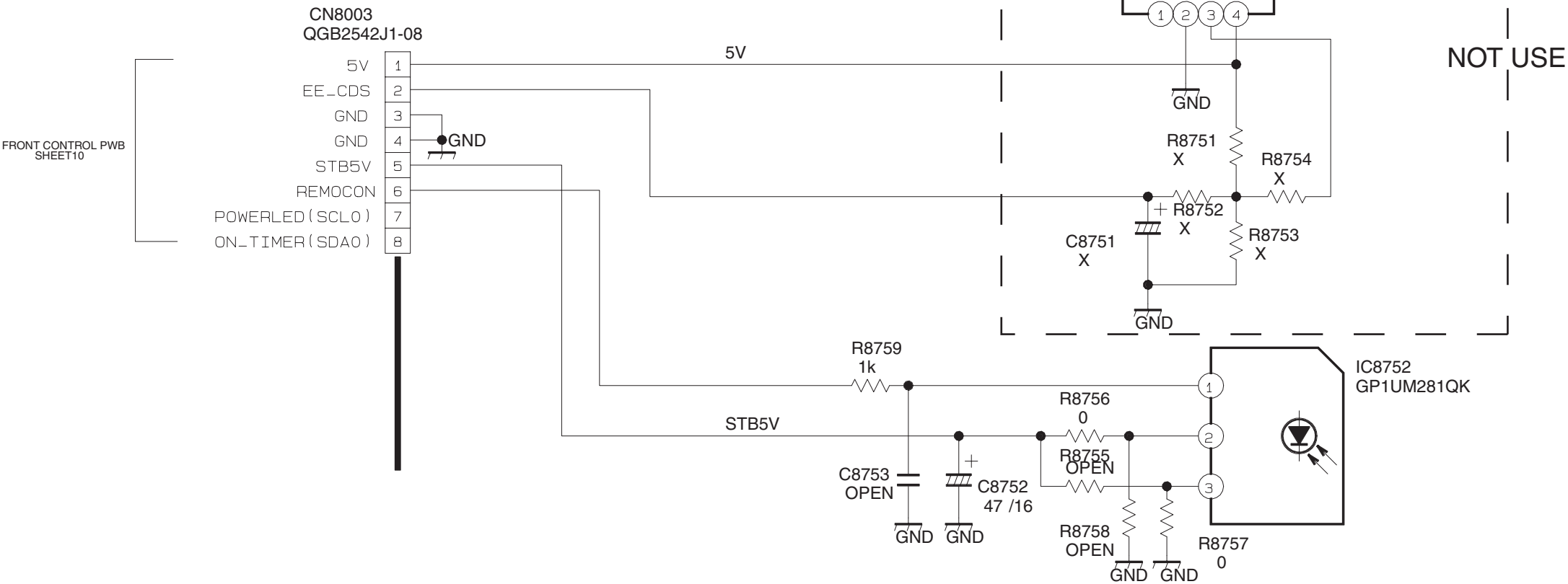
NOTES) 1.Please refer to page 2-35 for voltages of circuit diagram

REGURATOR PWB ASS'Y
LCA90150-03D
(SSB-9186A)

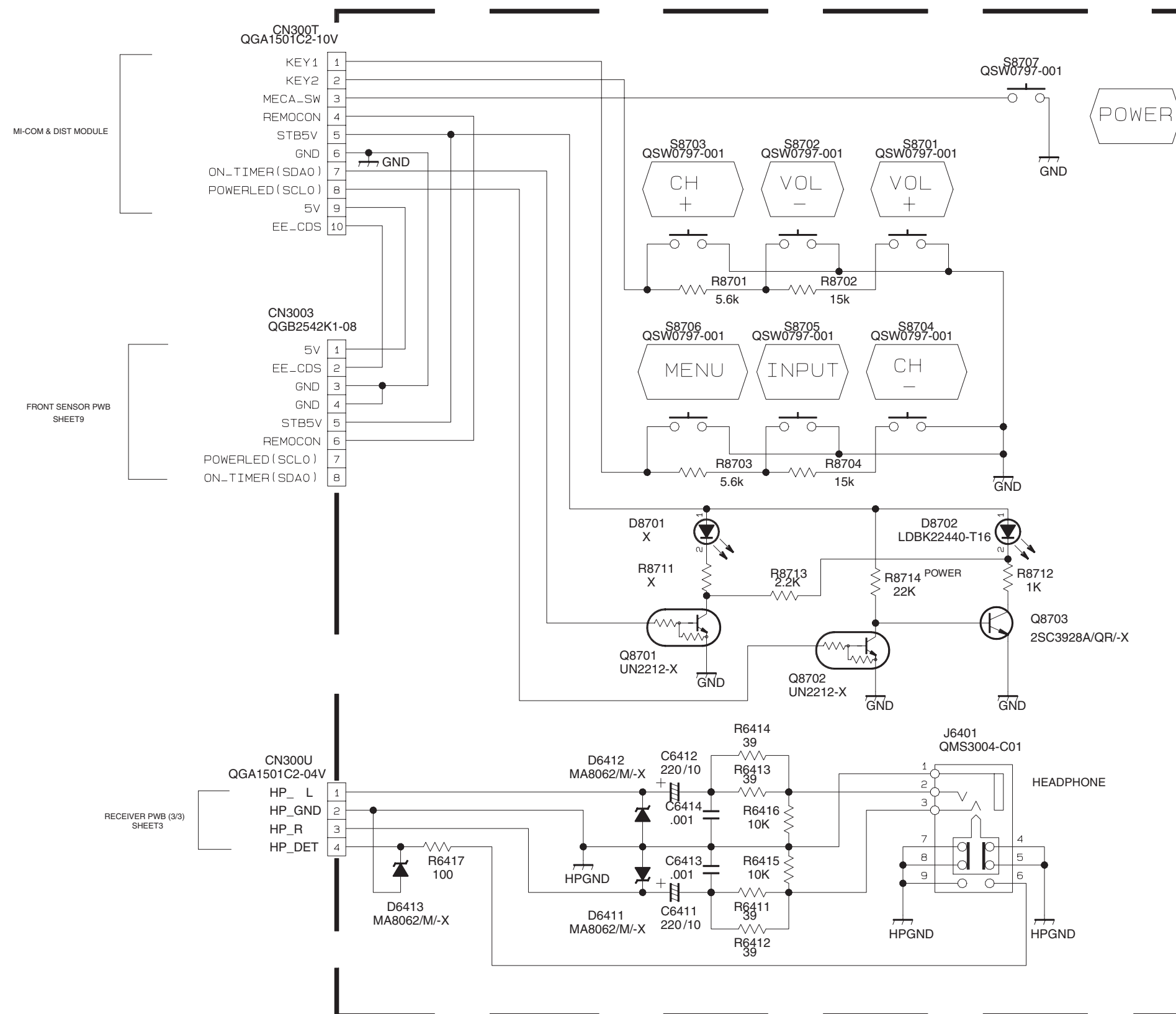


NOTES) 1.Please refer to page 2-35 for voltages of circuit diagram

FRONT SENSOR PWB ASS'Y
LCA90155-03B
(SSB-0L286A)



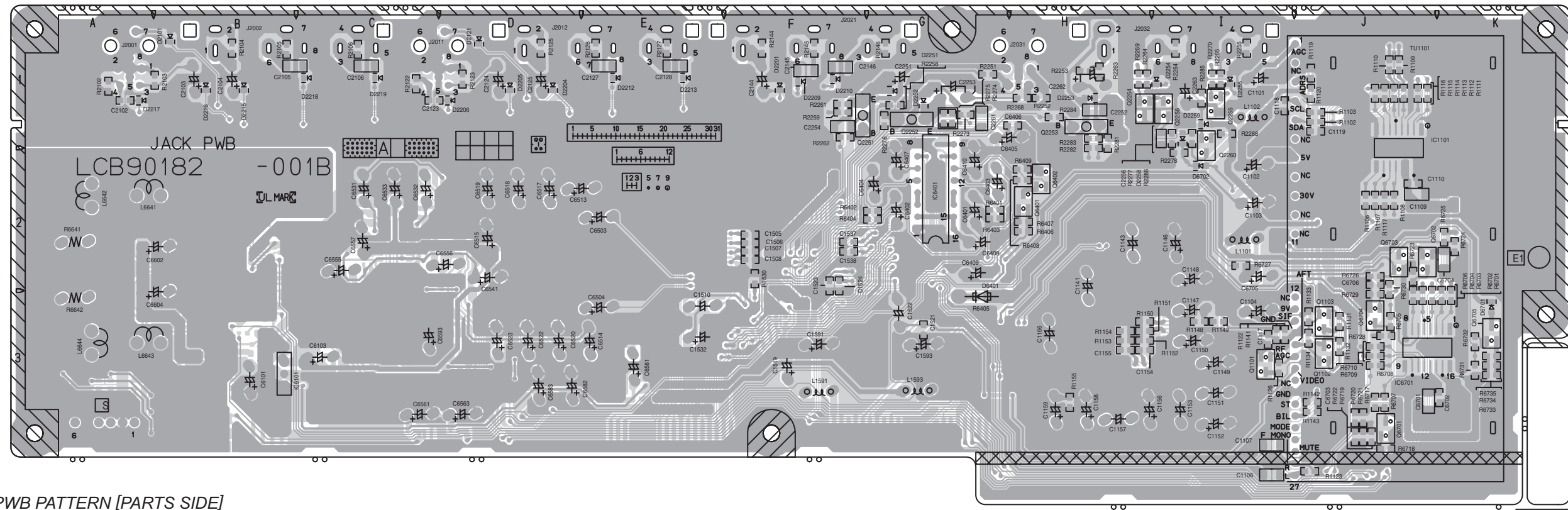
NOTES) 1.Please refer to page 2-35 for voltages of circuit diagram



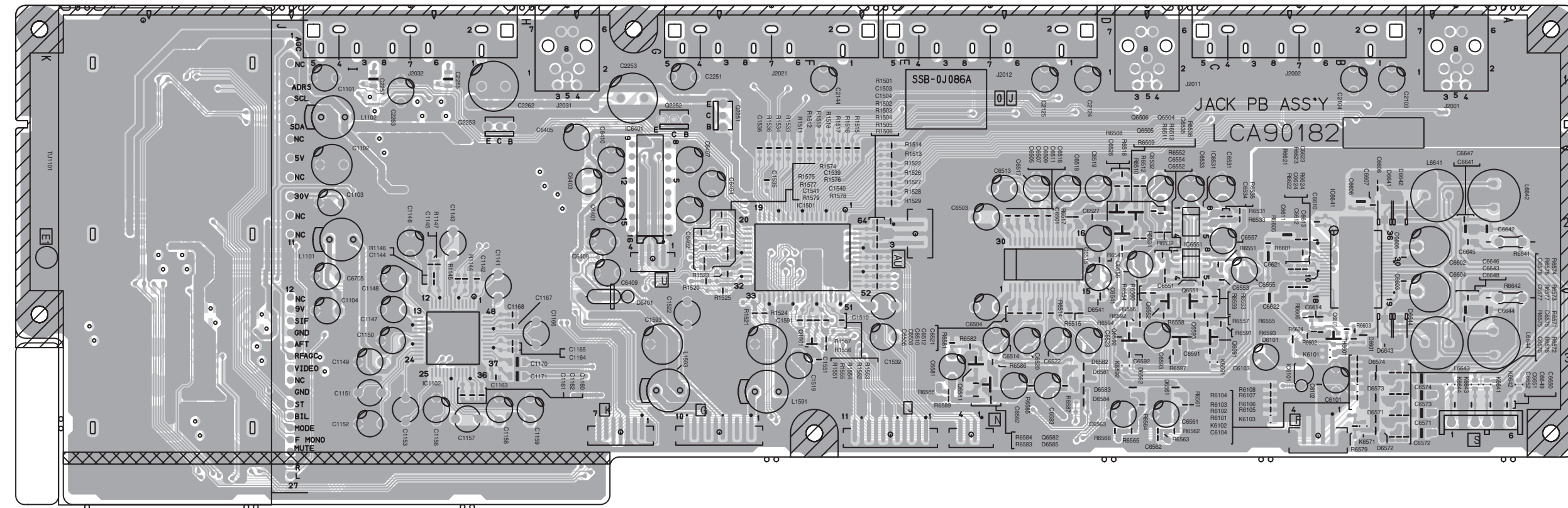
FRONT CONTROL PWB ASS'Y
LCA90154-03D
(SSB-0L386A)

NOTES) 1.Please refer to page 2-35 for voltages of circuit diagram

RECEIVER PWB PATTERN [SOLDER SIDE]

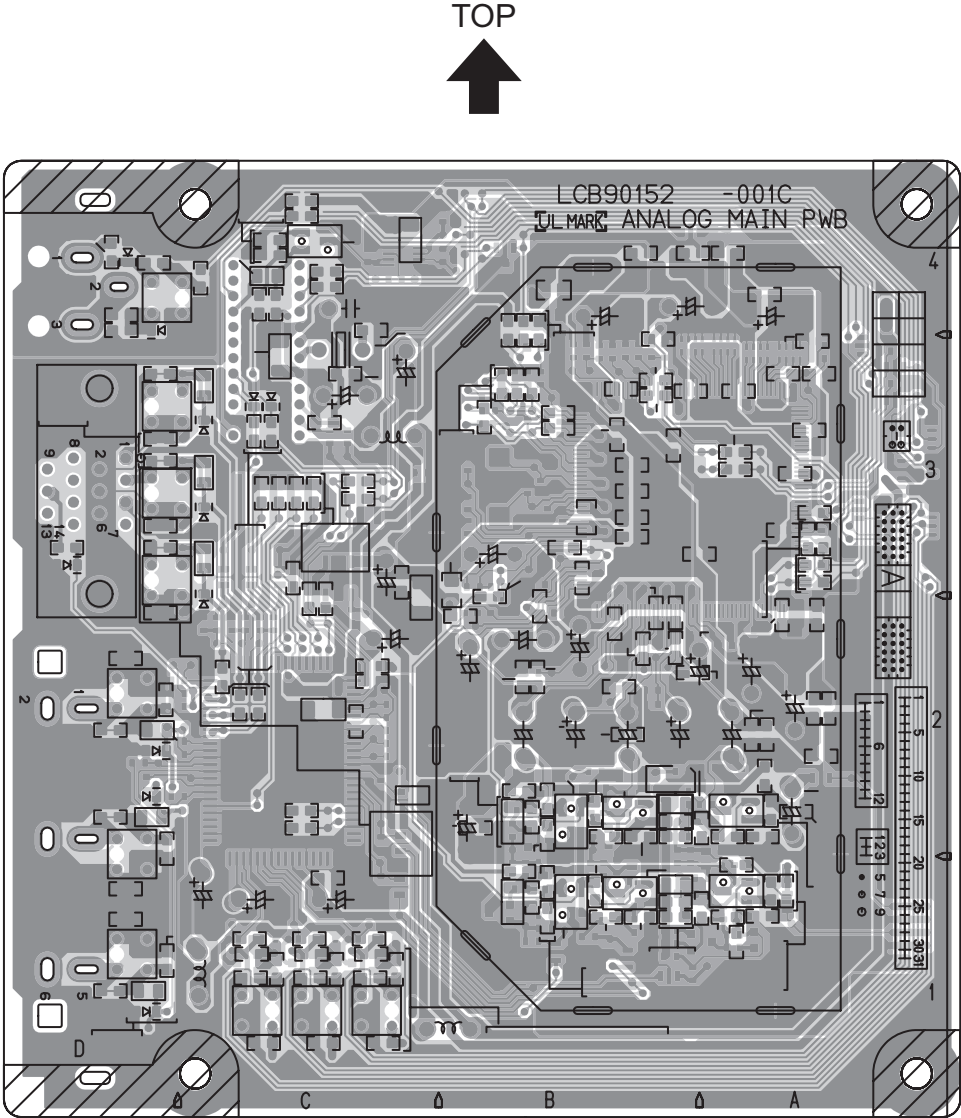


RECEIVER PWB PATTERN [PARTS SIDE]

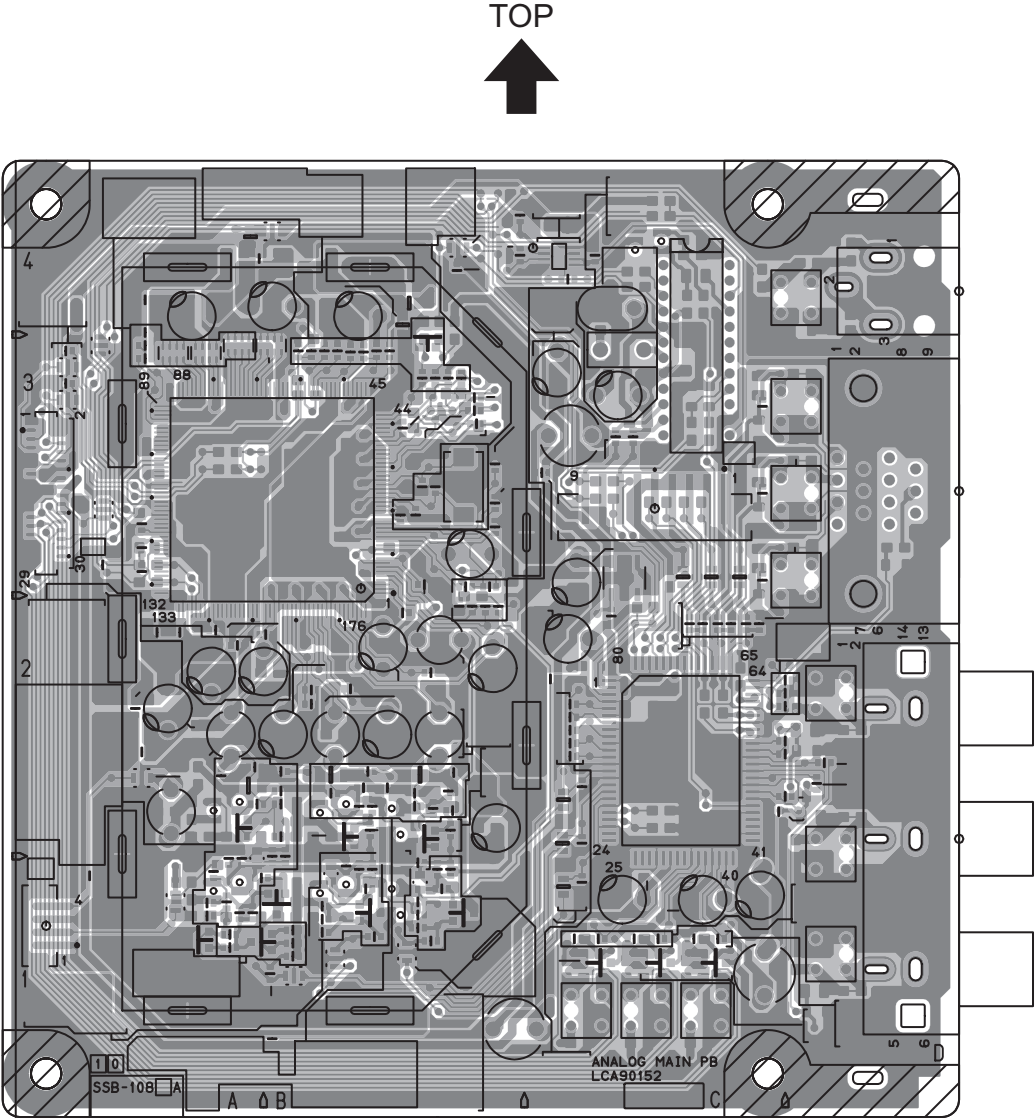


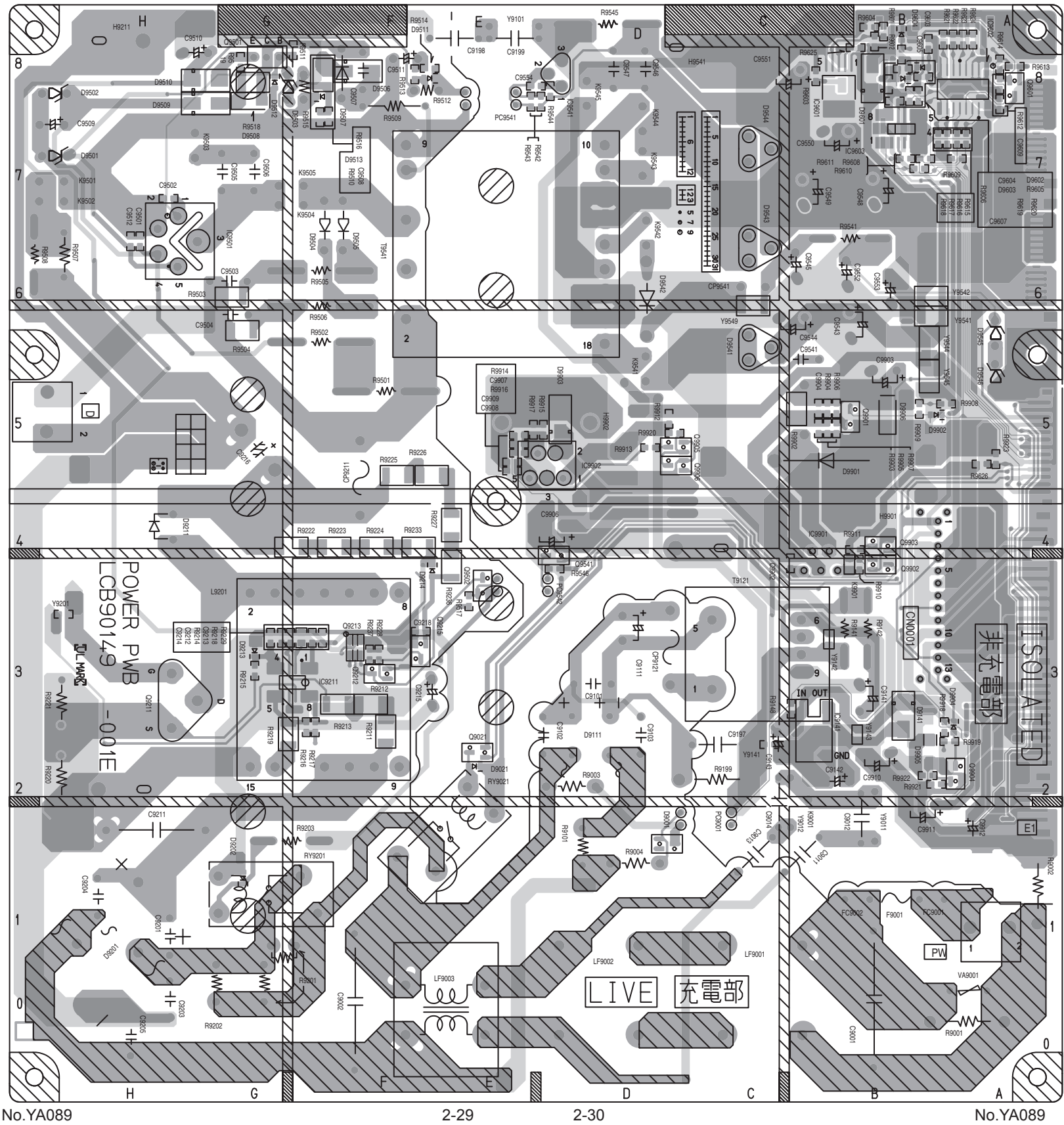
TOP

VIDEO PWB PATTERN [SOLDER SIDE]

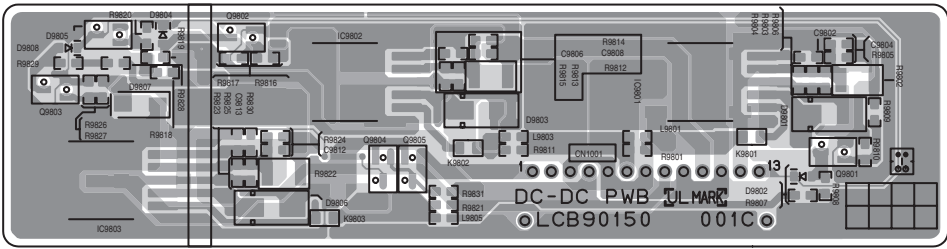


VIDEO PWB PATTERN [PARTS SIDE]

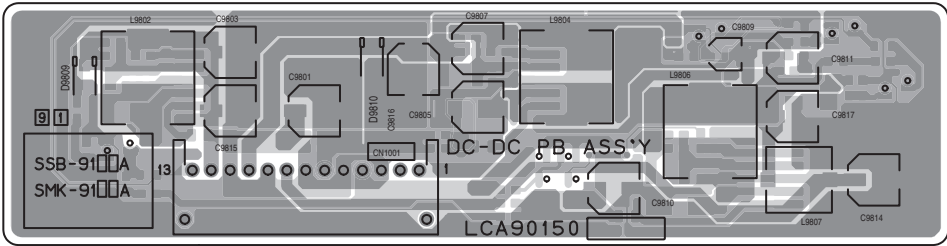




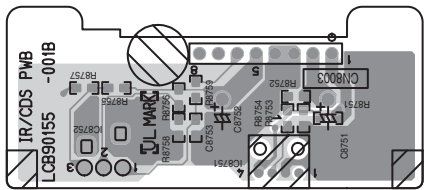
REGURATOR PWB PATTERN [SOLDER SIDE]



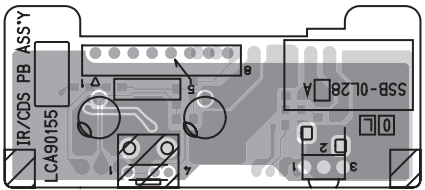
REGURATOR PWB PATTERN [PARTS SIDE]



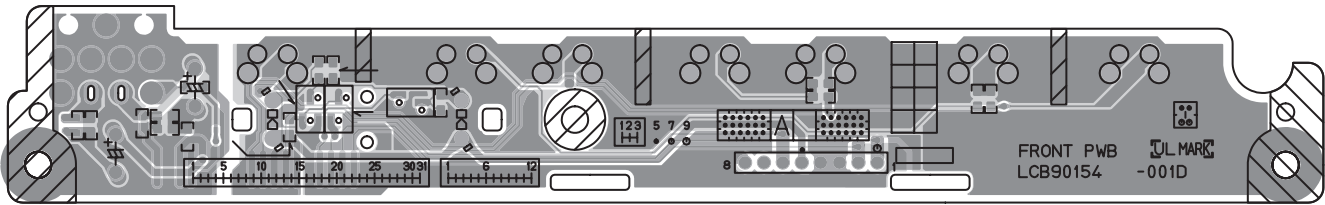
FRONT SENSOR PWB PATTERN [SOLDER SIDE]



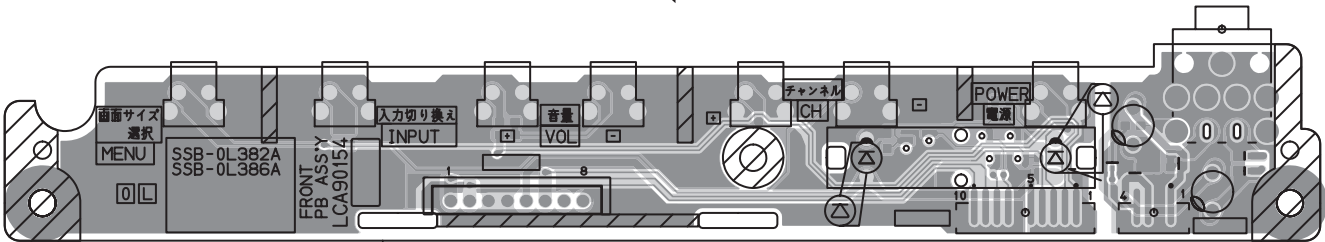
FRONT SENSOR PWB PATTERN [SOLDER SIDE]



FRONT CONTROL PWB PATTERN [SOLDER SIDE]



FRONT CONTROL PWB PATTERN [PARTS SIDE]



VOLTAGE CHARTS

<RECEIVER> [SHEET1]

MODE PIN NO.	DC (V)
IC1101	
1	0
2	4.2
3	3.0
4	0.5
5	0.5
6	0.5
7	0.5
8	0
9	0.5
10	0
11	0.5
12	0.5
13	5.2
14	5.2
15	0
16	0
IC1102	
1	4.2
2	4.2
3	4.1
4	4.1
5	2.9
6	4.2
7	0
8	4.1
9	0
10	4.1
11	4.0
12	5.3
13	4.1
14	1.3
15	1.3
16	0
17	0
18	3.1
19	9.0
20	0
21	4.1
22	4.1
23	4.2
24	3.9
25	4.1
26	4.0
27	4.1
28	1.7
29	4.1
30	4.1
31	1.7
32	4.0
33	4.1
34	4.1
35	0
36	4.1
37	4.1
38	4.1
39	4.1
40	4.1
41	4.1
42	0
43	4.1
44	0
45	4.2
46	0
47	4.2
48	4.1
Q1101	
E	0
C	4.2
B	0
Q1102	
E	5.4
C	0
B	4.8
Q1103	
E	4.8
C	9.0
B	5.4
TU1101	
1	4.2
2	5.8
3	5.2
4	4.3
5	3.0
6	0
7	5.2
8	0
9	31.9
10	0
11	0
12	0
13	0
14	2.4
15	0
16	4.8
17	4.2
18	2.5

MODE PIN NO.	DC (V)
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
CN000K	
1	4.8
2	0
3	0
4	2.9
5	4.3
6	3.3
7	0

[SHEET2]

MODE PIN NO.	DC (V)
IC1501	
1	4.3
2	4.5
3	4.0
4	4.4
5	4.4
6	0
7	5.0
8	4.0
9	4.5
10	3.9
11	4.5
12	4.4
13	0
14	5.0
15	3.9
16	4.5
17	3.9
18	4.5
19	4.4
20	0.1
21	5.1
22	3.9
23	4.5
24	4.0
25	4.5
26	4.4
27	0
28	5.0
29	4.5
30	5.5
31	4.4
32	0
33	4.3
34	2.9
35	0
36	0
37	4.4
38	4.5
39	3.7
40	4.5
41	3.7
42	9.0
43	4.5
44	4.3
45	4.5
46	3.7
47	4.4
48	0
49	3.9
50	4.5
51	4.4
52	4.5
53	3.7
54	4.5
55	3.7
56	3.2
57	0
58	4.3
59	4.5
60	3.9
61	4.5
62	4.5
63	3.9
64	4.4
Q2251	
E	5.1
C	0.0
B	4.9
Q2252	
E	4.4
C	0.0
B	3.8
Q2253	
E	4.5
C	0.0

MODE PIN NO.	DC (V)
B	3.8
Q2254	
E	0.0
C	0.0
B	-0.4
Q2255	
E	0.0
C	0.0
B	-0.2
Q2256	
E	0.0
C	-0.2
B	0.0
Q2260	
E	9.0
C	-0.3
B	8.9
CN000J	
1	4.4
2	0
3	4.3
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0

[SHEET3]

MODE PIN NO.	DC (V)
IC6101	
1	11.9
2	0.0
3	13.9
IC6401	
1	0.0
2	2.0
3	1.9
4	1.9
5	2.0
6	3.8
7	1.9
8	0.0
9	4.5
10	1.9
11	0.0
12	1.9
13	2.0
14	1.9
15	1.9
16	1.9
IC6501	
1	5.9
2	6.0
3	6.0
4	5.9
5	5.9
6	6.0
7	5.9
8	6.0
9	0.9
10	6.0
11	3.0
12	2.9
13	4.1
14	4.2
15	0.0
16	11.9
17	4.5
18	0.0
19	5.3
20	5.2
21	5.9
22	6.0
23	6.0
24	6.0
25	6.0
26	6.0
27	6.0
28	6.0
29	6.0
30	6.0
IC6531	
1	6.2
2	6.3
3	6.2
4	0.0
5	6.2
6	6.2
7	6.3
8	11.9
IC6551	
1	6.3
2	6.3

MODE PIN NO.	DC (V)
3	6.2
4	0.0
5	6.2
6	0.0
7	6.3
8	11.9
IC6641	
1	5.1
2	0.0
3	6.9
4	5.1
5	0.0
6	1.0
7	4.3
8	0.0
9	5.1
10	2.4
11	2.3
12	0.0
13	0.0
14	2.4
15	2.4
16	2.4
17	0.0
18	0.0
19	0.0
20	0.0
21	0.0
22	0.0
23	0.0
24	7.0
25	13.9
26	13.9
27	13.9
28	6.9
29	9.6
30	13.9
31	6.9
32	0.0
33	13.9
34	0.0
35	0.0
36	22.1
IC6701	
1	0.0
2	4.5
3	4.2
4	5.2
5	0.0
6	5.4
7	5.4
8	0.0
9	0.1
10	5.3
11	5.4
12	0.0
13	5.4
14	0.0
15	0.0
16	5.5
Q6401	
E	3.5
C	3.4
B	0.0
Q6402	
E	0.0
C	0.0
B	3.5
Q6504	
E	0.0
C	0.0
B	0.6
Q6505	
E	0.0
C	0.0
B	0.6
Q6506	
E	0.8
C	0.6
B	0.2
Q6551	
E	0.0
C	0.0
B	0.5
Q6581	
E	0.0
C	11.8
B	0.0
Q6582	
E	11.4
C	-0.4
B	11.8
Q6591	

MODE PIN NO.	DC (V)
E	0.0
C	0.0
B	-0.7
Q6592	
E	0.0
C	0.0
B	-0.9
Q6593	
E	0.0
C	-0.8
B	0.0
Q6601	
E	0.0
C	0.0
B	0.6
Q6702	
E	5.4
C	5.4
B	4.7
Q6703	
E	0.0
C	0.0
B	0.6
Q6704	
E	0.0
C	5.4
B	0.0
Q6705	
E	5.4
C	0.0
B	5.3

<VIDEO> [SHEET4]

MODE PIN NO.	DC (V)
IC9211	
1	-42.5
2	-41.5
3	-43.0
4	-42.9
5	-42.0
6	-42.7
7	-30.8
8	-24.1
Q9021	
E	0.0
C	0.3
B	3.2
Q9211	
S	-43.9
D	45.6
G	-30.9
Q9212	
E	0.0
C	-28.4
B	-43.5
Q9213	
1	-44.0
2	-44.0
3	-24.0
4	-24.0
5	-28.4
6	-44.0
Q9215	
E	-42.1
C	-42.0
B	-41.5

[SHEET5]

MODE PIN NO.	DC (V)
IC1211	
1	0.0
2	0.0
3	0.3
4	0.0
5	0.0
6	6.2
7	4.9
8	8.9
9	1.2
10	0.0
11	0.0
12	0.0
13	0.6
14	0.0
15	0.0
16	4.2
17	4.1
18	4.4
19	2.2
20	1.3
21	2.2
22	0.3
23	0.0
24	0.0
IC1212	
1	3.2
2	3.2
3	0.2
4	0.0
5	0.5
6	0.5
7	3.2
8	3.2
IC1301	
1	5.0
2	4.1
3	4.4
4	0.0
5	4.6
6	0.0
7	4.7
8	0.0
9	4.6
10	0.0
11	4.4
12	4.4
13	0.0
14	4.6
15	0.0
16	4.6
17	0.0
18	4.6
19	0.0
20	4.4
21	4.4
22	0.0
23	4.5
24	4.4
25	0.0
26	4.5

[SHEET5]

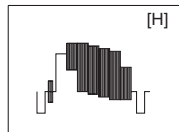
MODE PIN NO.	DC (V)
27	4.5
28	0.0
29	0.0
30	4.5
31	8.9
32	4.5
33	4.5
34	0.0
35	4.4
36	4.4
37	0.0
38	4.4
39	4.4
40	4.4
41	4.4
42	0.0
43	4.3
44	4.3
45	0.0
46	4.3
47	8.9
48	4.7
49	0.0
50	4.6
51	0.0
52	4.6
53	0.0
54	4.5
55	4.5
56	0.0
57	4.6
58	0.0
59	4.6
60	0.0
61	0.0
62	0.5
63	4.4
64	4.4
65	0.0
66	4.6
67	4.6
68	4.6
69	0.0
70	4.4
71	4.4
72	0.0
73	5.0
74	4.6
75	4.6
76	4.6
77	0.0
78	4.5
79	4.5
80	0.0
Q1232	
E	2.8
C	0.0
B	2.2
Q1301	
E	3.6
C	8.9
B	4.3
Q1302	
E	3.7
C	8.9
B	4.4
Q1303	
E	3.6
C	8.9
B	4.3
CN100H	
1	0
2	0
3	0.3
4	2.9
5	0
6	2.7
7	3.6
8	0
9	3.7
10	3.2
11	5.1
12	0
13	3.3
14	5.1
15	9.0
16	8.9
17	5.1
18	3.3
19	0
20	5.1
21	3.2
22	3.7
23	0
24	3.7
25	2.7
26	0.2

WAVEFORMS

—RECIEVER PWB—

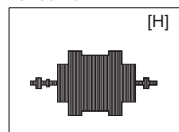
[SHEET1]

TU1101-18

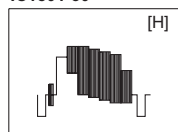


[SHEET2]

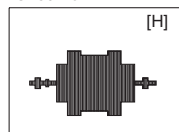
IC1501-5



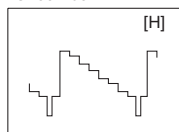
IC1501-30



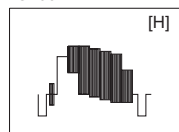
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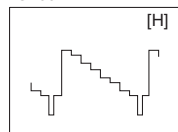
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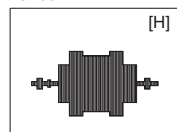
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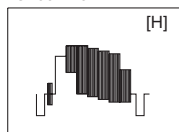
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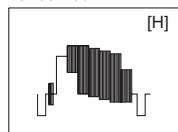
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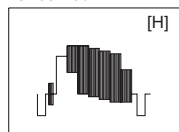
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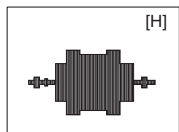
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IC1501-56



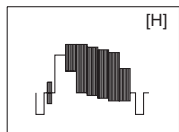
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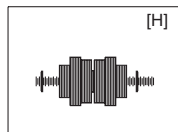
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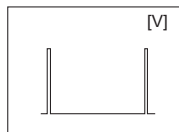
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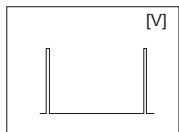
IC3001-13



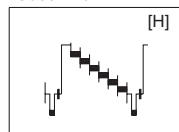
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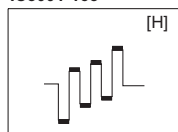
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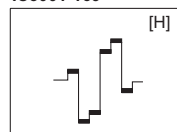
IC3001-157



IC3001-163

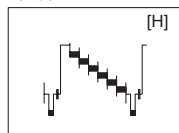


IC3001-169

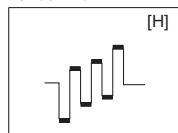


[SHEET5]

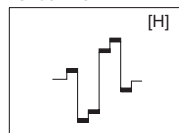
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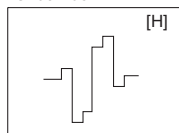
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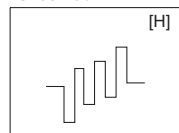
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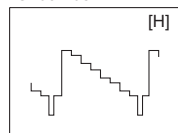
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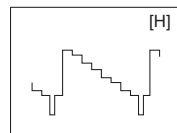
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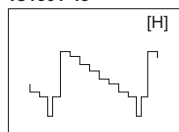
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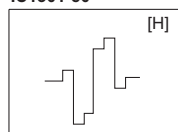
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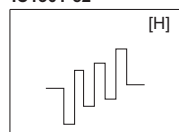
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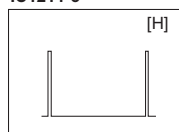
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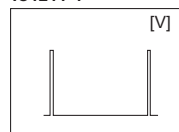
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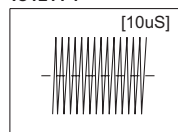
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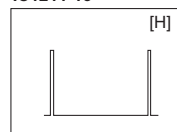
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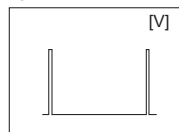
IC1211-7



IC1211-13



IC1211-22





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